

# FULL OBD2 CODE LIST

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# POXXXX



Code	Definition
P0000	No fault
P0001	Fuel volume regulator control -circuit open
P0002	Fuel volume regulator control -circuit range/performance
P0003	Fuel volume regulator control -circuit low
P0004	Fuel volume regulator control -circuit high
P0005	Fuel shut -off valve -circuit open
P0006	Fuel shut -off valve -circuit low
P0007	Fuel shut -off valve -circuit high
P0008	Engine position system, bank 1-engine performance
P0009	Engine position system, bank 2 -engine performance
P000A	A Camshaft Position Slow Response
P000B	B Camshaft Position Slow Response
P000C	A Camshaft Position Slow Response
P000D	B Camshaft Position Slow Response
P000E	Fuel Volume Regulator Control Exceeded Learning Limit
P000F	Fuel System Over Pressure Relief Valve Activated
P0010	Camshaft position (CMP) actuator, intake/left/front, bank 1 circuit malfunction
P0011	Camshaft position (CMP), intake/left/front, bank 1 timing over advanced/system performance
P0012	Camshaft position (CMP), intake/left/front, bank 1 timing over -retarded
P0013	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 -circuit malfunction
P0014	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 -timing over -advanced/system performance
P0015	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 -timing over -retarded
P0016	Crankshaft position/camshaft position, bank 1 sensor A - correlation

P0017	Crankshaft position/camshaft position, bank 1 sensor B - correlation
P0018	Crankshaft position/camshaft position, bank 2 sensor A - correlation
P0019	Crankshaft position/camshaft position, bank 2 sensor B - correlation
P001A	A Camshaft Profile Control Circuit/Open
P001B	A Camshaft Profile Control Circuit Low
P001C	A Camshaft Profile Control Circuit High
P001D	A Camshaft Profile Control Circuit/Open
P001E	A Camshaft Profile Control Circuit Low
P001F	A Camshaft Profile Control Circuit High
P0020	Camshaft position (CMP) ·actuator, intake/left/front, bank 2 -circuit malfunction
P0021	Camshaft position (CMP); intake/left/front, bank 2 timing over -advanced/system performance
P0022	Camshaft position (CMP), intake/left/front, bank 2. timing over -retarded
P0023	Camshaft position (CMP) actuator, exhaust/right/rear, bank 2 -circuit malfunction
P0024	Camshaft position (CMP), exhaust/right/rear, bank 2 -timing over -advanced/system performance
P0025	Camshaft position (CMP), exhaust/right/rear, bank 2 -timing over -retarded
P0026	Intake valve control solenoid circuit, bank 1 range/performance
P0027	Exhaust valve control solenoid circuit, bank 1 range/performance
P0028	Intake valve control solenoid circuit, bank 2 range/performance
P0029	Exhaust valve control solenoid circuit, bank 2 range/performance

P002A	B Camshaft Profile Control Circuit/Open
P002B	B Camshaft Profile Control Circuit Low
P002C	B Camshaft Profile Control Circuit High
P002D	B Camshaft Profile Control Circuit/Open
P002E	B Camshaft Profile Control Circuit Low
P002F	B Camshaft Profile Control Circuit High
P0030	Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit malfunction
P0031	Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit low
P0032	Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit high
P0033	Turbocharger (TC) wastegate regulating valve -circuit malfunction
P0034	Turbocharger (TC) wastegate regulating valve -circuit low
P0035	Turbocharger (TC) wastegate regulating valve -circuit high
P0036	Heated oxygen sensor (HO2S) 2, bank 1, heater control - circuit malfunction
P0037	Heated oxygen sensor (HO2S) 2, bank 1, heater control - circuit low
P0038	Heated oxygen sensor (HO2S) 2, bank 1, heater control - circuit high
P0039	Turbo/super charger bypass valve, control circuit range/performance
P003A	Turbocharger/Supercharger Boost Control "A" Position Exceeded Learning Limit
P003B	Turbocharger/Supercharger Boost Control "B" Position Exceeded Learning Limit
P003C	A Camshaft Profile Control Performance/Stuck Off
P003D	A Camshaft Profile Control Stuck On
P003E	A Camshaft Profile Control Performance/Stuck Off
P003F	A Camshaft Profile Control Stuck On

P0040	Oxygen sensor signals swapped, bank 1 sensor 1/bank 2 sensor 1
P0041	Oxygen sensor signals swapped, bank 1 sensor 2/bank 2 sensor 2
P0042	Heated oxygen sensor (HO2S) 3, bank 1, heater control - circuit malfunction
P0043	Heated oxygen sensor (HO2S) 3, bank 1, heater control circuit low
P0044	Heated oxygen sensor (HO2S) 3, bank 1, heater control - circuit high
P0045	Turbo/super charger boost control solenoid -circuit open
P0046	Turbo/super charger boost control solenoid circuit range/performance
P0047	Turbo/super charger boost control solenoid -circuit low
P0048	Turbo/super charger boost control solenoid -circuit high
P0049	Turbo/super charger turbine -over -speed
P004A	Turbocharger/Supercharger Boost Control "B" Circuit/Open
P004B	Turbocharger/Supercharger Boost Control "B" Circuit Range/Performance
P004C	Turbocharger/Supercharger Boost Control "B" Circuit Low
P004D	Turbocharger/Supercharger Boost Control "B" Circuit High
P004E	Turbocharger/Supercharger Boost Control "A" Circuit Intermittent/Erratic
P004F	Turbocharger/Supercharger Boost Control "B" Circuit Intermittent/Erratic
P0050	Heated oxygen sensor (HO2S) 1, bank 2, heater control circuit malfunction
P0051	Heated oxygen sensor (HO2S) 1, bank 2, heater control - circuit low
P0052	Heated oxygen sensor (HO2S) 1, bank 2, heater control - circuit high

P0053	Heated oxygen sensor (HO2S), bank 1, sensor 1 -heater resistance
P0054	Heated oxygen sensor (HO2S), bank 1, sensor 2 -heater resistance
P0055	Heated oxygen sensor (HO2S), bank 1, sensor 3 -heater resistance
P0056	Heated oxygen sensor (HO2S) 2, bank 2, heater control - circuit malfunction
P0057	Heated oxygen sensor (HO2S) 2, bank 2, heater control heater circuit low
P0058	Heated oxygen sensor (HO2S) 2, bank 2, heater control circuit high
P0059	Heated oxygen sensor (HO2S), bank 2, sensor 1 -heater resistance
P005A	B Camshaft Profile Control Performance/Stuck Off
P005B	B Camshaft Profile Control Stuck On
P005C	B Camshaft Profile Control Performance/Stuck Off
P005D	B Camshaft Profile Control Stuck On
P005E	Turbocharger/Supercharger Boost Control "B" Supply Voltage Circuit Low
P005F	Turbocharger/Supercharger Boost Control "B" Supply Voltage Circuit High
P0060	Heated oxygen sensor (HO2S), bank 2, sensor 2 -heater resistance
P0061	Heated oxygen sensor (HO2S), bank 2, sensor 3 -heater resistance
P0062	Heated oxygen sensor (HO2S) 3, bank 2, heater control circuit malfunction
P0063	Heated oxygen sensor (HO2S) 3, bank 2, heater control circuit low
P0064	Heated oxygen sensor (HO2S) 3, bank 2, heater control circuit high

P0065	Air assisted injector -range/performance problem
P0066	Air assisted injector -circuit malfunction/circuit low
P0067	Air assisted injector -circuit high
P0068	Manifold absolute pressure (MAP) sensor/mass air flow (MAF) sensor/throttle position correlation
P0069	Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor correlation
P006A	MAP - Mass or Volume Air Flow Correlation
P006B	MAP - Exhaust Pressure Correlation
P006C	MAP - Turbocharger/Supercharger Inlet Pressure Correlation
P006D	Barometric Pressure - Turbocharger/Supercharger Inlet Pressure Correlation
P006E	Turbocharger/Supercharger Boost Control "A" Supply Voltage Circuit Low
P006F	Turbocharger/Supercharger Boost Control "A" Supply Voltage Circuit High
P0070	Outside air temperature sensor -circuit malfunction
P0071	Outside air temperature sensor -range/performance problem
P0072	Outside air temperature sensor -low input
P0073	Outside air temperature sensor -high input
P0074	Outside air temperature sensor -circuit intermittent
P0075	Intake valve control solenoid, bank 1 -circuit malfunction
P0076	Intake valve control solenoid, bank 1 -circuit low
P0077	Intake valve control solenoid, bank 1 -circuit high
P0078	Exhaust valve control solenoid, bank 1 -circuit malfunction
P0079	Exhaust valve control solenoid, bank 1 -circuit low
P007A	Charge Air Cooler Temperature Sensor Circuit

P007B	Charge Air Cooler Temperature Sensor Circuit Range/Performance
P007C	Charge Air Cooler Temperature Sensor Circuit Low
P007D	Charge Air Cooler Temperature Sensor Circuit High
P007E	Charge Air Cooler Temperature Sensor Circuit Intermittent/Erratic
P007F	Charge Air Cooler Temperature Sensor Bank1/Bank2 Correlation
P0080	Exhaust valve control solenoid, bank 1 -circuit high
P0081	Intake valve control solenoid, bank 2 -circuit malfunction
P0082	Intake valve control solenoid, bank 2 -circuit low
P0083	Intake valve control solenoid, bank 2 -circuit high
P0084	Exhaust valve control solenoid, bank 2 -circuit malfunction
P0085	Exhaust valve control solenoid, bank 2 -circuit low
P0086	Exhaust valve control solenoid, bank 2 -circuit high
P0087	Fuel rail/system pressure too low
P0088	Fuel rail/system pressure too high
P0089	Fuel pressure regulator -performance problem
P008A	Low Pressure Fuel System Pressure - Too Low
P008B	Low Pressure Fuel System Pressure - Too High
P008C	Fuel Cooler Pump Control Circuit/Open
P008D	Fuel Cooler Pump Control Circuit Low
P008E	Fuel Cooler Pump Control Circuit High
P008F	Engine Coolant Temperature/Fuel Temperature Correlation
P0090	Fuel metering solenoid -open circuit
P0091	Fuel metering solenoid - -short to earth
P0092	Fuel metering solenoid -short to positive
P0093	Fuel system leak -large leak detected
P0094	Fuel system leak -small leak detected
P0095	Intake air temperature (IAT) sensor 2 -circuit malfunction

P0096	Intake air temperature (IAT) sensor 2 -circuit range/performance
P0097	Intake air temperature (IAT) sensor 2 -circuit low input
P0098	Intake air temperature (IAT) sensor 2 -circuit high input
P0099	Intake air temperature (IAT) sensor 2 -circuit intermittent/erratic
P009A	Intake Air Temperature/Ambient Air Temperature Correlation
P009B	Fuel Pressure Relief Control Circuit/Open
P009C	Fuel Pressure Relief Control Circuit Low
P009D	Fuel Pressure Relief Control Circuit High
P009E	Fuel Pressure Relief Control Performance/Stuck Off
P009F	Fuel Pressure Relief Control Stuck On
P00A0	Charge Air Cooler Temperature Sensor Circuit
P00A1	Charge Air Cooler Temperature Sensor Circuit Range/Performance
P00A2	Charge Air Cooler Temperature Sensor Circuit Low
P00A3	Charge Air Cooler Temperature Sensor Circuit High
P00A4	Charge Air Cooler Temperature Sensor Circuit Intermittent/Erratic
P00A5	Intake Air Temperature Sensor 2 Circuit
P00A6	Intake Air Temperature Sensor 2 Circuit Range/Performance
P00A7	Intake Air Temperature Sensor 2 Circuit Low
P00A8	Intake Air Temperature Sensor 2 Circuit High
P00A9	Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic
P00AA	Intake Air Temperature Sensor 1 Circuit
P00AB	Intake Air Temperature Sensor 1 Circuit Range/Performance
P00AC	Intake Air Temperature Sensor 1 Circuit Low
P00AD	Intake Air Temperature Sensor 1 Circuit High

P00AE	Intake Air Temperature Sensor 1 Circuit Intermittent
P00AF	Turbocharger/Supercharger Boost Control "A" Module Performance
P00BO	Turbocharger/Supercharger Boost Control "B" Module Performance
P00B1	Radiator Coolant Temperature Sensor Circuit
P00B2	Radiator Coolant Temperature Sensor Circuit Range/Performance
P00B3	Radiator Coolant Temperature Sensor Circuit Low
P00B4	Radiator Coolant Temperature Sensor Circuit High
P00B5	Radiator Coolant Temperature Sensor Circuit Intermittent/Erratic
P00B6	Radiator Coolant Temperature/Engine Coolant Temperature Correlation
P00B7	Engine Coolant Flow Low/Performance
P00B8	MAP - Mass or Volume Air Flow Correlation
P00B9	Low Pressure Fuel System Pressure - Too Low
P00BA	Low Fuel Pressure - Forced Limited Power
P00BB	Fuel Injector Insufficient Flow - Forced Limited Power
P00BC	Mass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too Low
P00BD	Mass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too High
P00BE	Mass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too Low
P00BF	Mass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too High
P00CO – P00FF	ISO/SAE Reserved
P00C6	Fuel Rail Pressure Low During Cranking
P00FF	Fuel / Air auxillary system

Code	Definition
P0100	Mass or Volume Air Flow "A" Circuit
P0101	Mass or Volume Air Flow "A" Circuit Range/Performance
P0102	Mass or Volume Air Flow "A" Circuit Low
P0103	Mass or Volume Air Flow "A" Circuit High
P0104	Mass or Volume Air Flow "A" Circuit Intermittent
P0105	Manifold Absolute Pressure/Barometric Pressure Circuit
P0106	Manifold Absolute Pressure/Barometric Pressure Circuit
P0107	Manifold Absolute Pressure/Barometric Pressure Circuit Low
P0108	Manifold Absolute Pressure/Barometric Pressure Circuit High
P0109	Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent
P010A	Mass or Volume Air Flow "B" Circuit
P010B	Mass or Volume Air Flow "B" Circuit Range/Performance
P010C	Mass or Volume Air Flow "B" Circuit Low
P010D	Mass or Volume Air Flow "B" Circuit High
P010E	Mass or Volume Air Flow "B" Circuit Intermittent/Erratic
P010F	Mass or Volume Air Flow Sensor A/B Correlation
P0110	Intake Air Temperature Sensor 1 Circuit
P0111	Intake Air Temperature Sensor 1 Circuit Range/Performance
P0112	Intake Air Temperature Sensor 1 Circuit Low
P0113	Intake Air Temperature Sensor 1 Circuit High
P0114	Intake Air Temperature Sensor 1 Circuit Intermittent
P0115	Engine Coolant Temperature Sensor 1 Circuit
P0116	Engine Coolant Temperature Sensor 1 Circuit Range/Performance

P0117	Engine Coolant Temperature Sensor 1 Circuit Low
P0118	Engine Coolant Temperature Sensor 1 Circuit High
P0119	Engine Coolant Temperature Sensor 1 Circuit Intermittent
P011A	Engine Coolant Temperature Sensor 1/2 Correlation
P011B	Engine Coolant Temperature/Intake Air Temperature Correlation
P011C	Charge Air Temperature/Intake Air Temperature Correlation
P011D	Charge Air Temperature/Intake Air Temperature Correlation
P0120	Throttle/Pedal Position Sensor/Switch "A" Circuit
P0121	Throttle/Pedal Position Sensor/Switch "A" Circuit
P0122	Throttle/Pedal Position Sensor/Switch "A" Circuit Low
P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High
P0124	Throttle/Pedal Position Sensor/Switch "A" Circuit Intermittent
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control
P0126	Insufficient Coolant Temperature for Stable Operation
P0127	Intake Air Temperature Too High
P0128	Coolant Thermostat (Coolant Temperature Below Thermostat)
P0129	Barometric Pressure Too Low
P012A	Turbocharger/Supercharger Inlet Pressure Sensor Circuit
P012B	Turbocharger/Supercharger Inlet Pressure Sensor Circuit
P012C	Turbocharger/Supercharger Inlet Pressure Sensor Circuit Low
P012D	Turbocharger/Supercharger Inlet Pressure Sensor Circuit High

P012E	Turbocharger/Supercharger Inlet Pressure Sensor Circuit
P0130	O2 Sensor Circuit
P0131	O2 Sensor Circuit Low Voltage
P0132	O2 Sensor Circuit High Voltage
P0133	O2 Sensor Circuit Slow Response
P0134	O2 Sensor Circuit no Activity Detected
P0135	O2 Sensor Heater Circuit
P0136	O2 Sensor Circuit
P0137	O2 Sensor Circuit Low Voltage
P0138	O2 Sensor Circuit High Voltage
P0139	O2 Sensor Circuit Slow Response
P013A	O2 Sensor Slow Response - Rich to Lean
P013B	O2 Sensor Slow Response - Lean to Rich
P013C	O2 Sensor Slow Response - Rich to Lean
P013D	O2 Sensor Slow Response - Lean to Rich
P013E	O2 Sensor Delayed Response - Rich to Lean
P013F	O2 Sensor Delayed Response - Lean to Rich
P0140	O2 Sensor Circuit no Activity Detected
P0141	O2 Sensor Heater Circuit
P0142	O2 Sensor Circuit
P0143	O2 Sensor Circuit Low Voltage
P0144	O2 Sensor Circuit High Voltage
P0145	O2 Sensor Circuit Slow Response
P0146	O2 Sensor Circuit no Activity Detected
P0147	O2 Sensor Heater Circuit
P0148	Fuel Delivery Error
P0149	Fuel Timing Error
P014A	O2 Sensor Delayed Response - Rich to Lean

P014B	O2 Sensor Delayed Response - Lean to Rich
P014C	O2 Sensor Slow Response - Rich to Lean
P014D	O2 Sensor Slow Response - Lean to Rich
P014E	O2 Sensor Slow Response - Rich to Lean
P014F	O2 Sensor Slow Response - Lean to Rich
P0150	O2 Sensor Circuit
P0151	O2 Sensor Circuit Low Voltage
P0152	O2 Sensor Circuit High Voltage
P0153	O2 Sensor Circuit Slow Response
P0154	O2 Sensor Circuit no Activity Detected
P0155	O2 Sensor Heater Circuit
P0156	O2 Sensor Circuit
P0157	O2 Sensor Circuit Low Voltage
P0158	O2 Sensor Circuit High Voltage
P0159	O2 Sensor Circuit Slow Response
P015A	O2 Sensor Delayed Response - Rich to Lean
P015B	O2 Sensor Delayed Response - Lean to Rich
P015C	O2 Sensor Delayed Response - Rich to Lean
P015D	O2 Sensor Delayed Response - Lean to Rich
P0160	O2 Sensor Circuit no Activity Detected
P0161	O2 Sensor Heater Circuit
P0162	O2 Sensor Circuit
P0163	O2 Sensor Circuit Low Voltage
P0164	O2 Sensor Circuit High Voltage
P0165	O2 Sensor Circuit Slow Response
P0166	O2 Sensor Circuit no Activity Detected
P0167	O2 Sensor Heater Circuit
P0168	Fuel Temperature Too High

P0169	Incorrect Fuel Composition
P0170	Fuel Trim
P0171	System Too Lean
P0172	System Too Rich
P0173	Fuel Trim
P0174	System Too Lean
P0175	System Too Rich
P0176	Fuel Composition Sensor Circuit
P0177	Fuel Composition Sensor Circuit Range/Performance
P0178	Fuel Composition Sensor Circuit Low
P0179	Fuel Composition Sensor Circuit High
P0180	Fuel Temperature Sensor "A" Circuit
P0181	Fuel Temperature Sensor "A" Circuit Range/Performance
P0182	Fuel Temperature Sensor "A" Circuit Low
P0183	Fuel Temperature Sensor "A" Circuit High
P0184	Fuel Temperature Sensor "A" Circuit Intermittent
P0185	Fuel Temperature Sensor "B" Circuit
P0186	Fuel Temperature Sensor "B" Circuit Range/Performance
P0187	Fuel Temperature Sensor "B" Circuit Low
P0188	Fuel Temperature Sensor "B" Circuit High
P0189	Fuel Temperature Sensor "B" Circuit Intermittent
P018A	Fuel Pressure Sensor "B" Circuit
P018B	Fuel Pressure Sensor "B" Circuit Range/Performance
P018C	Fuel Pressure Sensor "B" Circuit Low
P018D	Fuel Pressure Sensor "B" Circuit High
P018E	Fuel Pressure Sensor "B" Circuit Intermittent/Erratic
P018F	Fuel System Over Pressure Relief Valve Frequent Activation

P0190	Fuel Rail Pressure Sensor "A" Circuit
P0191	Fuel Rail Pressure Sensor "A" Circuit Range/Performance
P0192	Fuel Rail Pressure Sensor "A" Circuit Low
P0193	Fuel Rail Pressure Sensor "A" Circuit High
P0194	Fuel Rail Pressure Sensor "A" Circuit Intermittent/Erratic
P0195	Engine Oil Temperature Sensor Circuit
P0196	Engine Oil Temperature Sensor Range/Performance
P0197	Engine Oil Temperature Sensor Circuit Low
P0198	Engine Oil Temperature Sensor Circuit High
P0199	Engine Oil Temperature Sensor Circuit Intermittent/Erratic

Code	Definition
P0200	Injector Circuit/Open
P0201	Injector Circuit/Open - Cylinder 1
P0202	Injector Circuit/Open - Cylinder 2
P0203	Injector Circuit/Open - Cylinder 3
P0204	Injector Circuit/Open - Cylinder 4
P0205	Injector Circuit/Open - Cylinder 5
P0206	Injector Circuit/Open - Cylinder 6
P0207	Injector Circuit/Open - Cylinder 7
P0208	Injector Circuit/Open - Cylinder 8
P0209	Injector Circuit/Open - Cylinder 9
P020A	Cylinder 1 Injection Timing
P020B	Cylinder 2 Injection Timing
P020C	Cylinder 3 Injection Timing
P020D	Cylinder 4 Injection Timing
P020E	Cylinder 5 Injection Timing
P020F	Cylinder 6 Injection Timing
P0210	Injector Circuit/Open - Cylinder 10
P0211	Injector Circuit/Open - Cylinder 11
P0212	Injector Circuit/Open - Cylinder 12
P0213	Cold Start Injector 1
P0214	Cold Start Injector 2

P0215	Engine Shutoff Solenoid
P0216	Injector/Injection Timing Control Circuit
P0217	Engine Coolant Over Temperature Condition
P0218	Transmission Fluid Over Temperature Condition
P0219	Engine Overspeed Condition
P021A	Cylinder 7 Injection Timing
P021B	Cylinder 8 Injection Timing
P021C	Cylinder 9 Injection Timing
P021D	Cylinder 10 Injection Timing
P021E	Cylinder 11 Injection Timing
P021F	Cylinder 12 Injection Timing
P0220	Throttle/Pedal Position Sensor/Switch "B" Circuit
P0221	Throttle/Pedal Position Sensor/Switch "B" Circuit
P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low
P0223	Throttle/Pedal Position Sensor/Switch "B" Circuit High
P0224	Throttle/Pedal Position Sensor/Switch "B" Circuit Intermittent
P0225	Throttle/Pedal Position Sensor/Switch "C" Circuit
P0226	Throttle/Pedal Position Sensor/Switch "C" Circuit
P0227	Throttle/Pedal Position Sensor/Switch "C" Circuit Low
P0228	Throttle/Pedal Position Sensor/Switch "C" Circuit High

P0229	Throttle/Pedal Position Sensor/Switch "C" Circuit Intermittent
P022A	Charge Air Cooler Bypass Control "A" Circuit /Open
P022B	Charge Air Cooler Bypass Control "A" Circuit Low
P022C	Charge Air Cooler Bypass Control "A" Circuit High
P022D	Charge Air Cooler Bypass Control "B" Circuit /Open
P022E	Charge Air Cooler Bypass Control "B" Circuit Low
P022F	Charge Air Cooler Bypass Control "B" Circuit High
P0230	Fuel Pump Primary Circuit
P0231	Fuel Pump Secondary Circuit Low
P0232	Fuel Pump Secondary Circuit High
P0233	Fuel Pump Secondary Circuit Intermittent
P0234	Turbocharger/Supercharger "A" Overboost Condition
P0235	Turbocharger/Supercharger Boost Sensor "A" Circuit
P0236	Turbocharger/Supercharger Boost Sensor "A" Circuit
P0237	Turbocharger/Supercharger Boost Sensor "A" Circuit Low
P0238	Turbocharger/Supercharger Boost Sensor "A" Circuit High
P0239	Turbocharger/Supercharger Boost Sensor "B" Circuit
P023A	Charge Air Cooler Coolant Pump Control Circuit/Open
P023B	Charge Air Cooler Coolant Pump Control Circuit Low
P023C	Charge Air Cooler Coolant Pump Control Circuit High
P023D	Manifold Absolute Pressure - Turbocharger/Supercharger Boost

P023E	Manifold Absolute Pressure - Turbocharger/Supercharger Boost
P023F	Fuel Pump Secondary Circuit/Open
P0240	Turbocharger/Supercharger Boost Sensor "B" Circuit
P0241	Turbocharger/Supercharger Boost Sensor "B" Circuit Low
P0242	Turbocharger/Supercharger Boost Sensor "B" Circuit High
P0243	Turbocharger/Supercharger Wastegate Solenoid "A"
P0244	Turbocharger/Supercharger Wastegate Solenoid "A"
P0245	Turbocharger/Supercharger Wastegate Solenoid "A" Low
P0246	Turbocharger/Supercharger Wastegate Solenoid "A" High
P0247	Turbocharger/Supercharger Wastegate Solenoid "B"
P0248	Turbocharger/Supercharger Wastegate Solenoid "B"
P0249	Turbocharger/Supercharger Wastegate Solenoid "B" Low
P024A	Charge Air Cooler Bypass Control "A" Range/Performance
P024B	Charge Air Cooler Bypass Control "A" Stuck
P024C	Charge Air Cooler Bypass Position Sensor "A" Circuit
P024D	Charge Air Cooler Bypass Position Sensor "A" Circuit
P024E	Charge Air Cooler Bypass Position Sensor "A" Circuit Low
P024F	Charge Air Cooler Bypass Position Sensor "A" Circuit High
P0250	Turbocharger/Supercharger Wastegate Solenoid "B" High
P0251	Injection Pump Fuel Metering Control "A" (Cam/Rotor/Injector)

P0252	Injection Pump Fuel Metering Control "A" Range/Performance
P0253	Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector)
P0254	Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector)
P0255	Injection Pump Fuel Metering Control "A" Intermittent
P0256	Injection Pump Fuel Metering Control "B" (Cam/Rotor/Injector)
P0257	Injection Pump Fuel Metering Control "B" Range/Performance
P0258	Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector)
P0259	Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector)
P025A	Fuel Pump Module Control Circuit/Open
P025B	Fuel Pump Module Control Circuit Range/Performance
P025C	Fuel Pump Module Control Circuit Low
P025D	Fuel Pump Module Control Circuit High
P0260	Injection Pump Fuel Metering Control "B" Intermittent
P0261	Cylinder 1 Injector Circuit Low
P0262	Cylinder 1 Injector Circuit High
P0263	Cylinder 1 Contribution/Balance
P0264	Cylinder 2 Injector Circuit Low
P0265	Cylinder 2 Injector Circuit High
P0266	Cylinder 2 Contribution/Balance

P0267	Cylinder 3 Injector Circuit Low
P0268	Cylinder 3 Injector Circuit High
P0269	Cylinder 3 Contribution/Balance
P0270	Cylinder 4 Injector Circuit Low
P0271	Cylinder 4 Injector Circuit High
P0272	Cylinder 4 Contribution/Balance
P0273	Cylinder 5 Injector Circuit Low
P0274	Cylinder 5 Injector Circuit High
P0275	Cylinder 5 Contribution/Balance
P0276	Cylinder 6 Injector Circuit Low
P0277	Cylinder 6 Injector Circuit High
P0278	Cylinder 6 Contribution/Balance
P0279	Cylinder 7 Injector Circuit Low
P0280	Cylinder 7 Injector Circuit High
P0281	Cylinder 7 Contribution/Balance
P0282	Cylinder 8 Injector Circuit Low
P0283	Cylinder 8 Injector Circuit High
P0284	Cylinder 8 Contribution/Balance
P0285	Cylinder 9 Injector Circuit Low
P0286	Cylinder 9 Injector Circuit High
P0287	Cylinder 9 Contribution/Balance
P0288	Cylinder 10 Injector Circuit Low

P0289	Cylinder 10 Injector Circuit High
P0290	Cylinder 10 Contribution/Balance
P0291	Cylinder 11 Injector Circuit Low
P0292	Cylinder 11 Injector Circuit High
P0293	Cylinder 11 Contribution/Balance
P0294	Cylinder 12 Injector Circuit Low
P0295	Cylinder 12 Injector Circuit High
P0296	Cylinder 12 Contribution/Balance
P0297	Vehicle Overspeed Condition
P0298	Engine Oil Over Temperature
P0299	Turbocharger/Supercharger "A" Underboost Condition
P029A	Cylinder 1 - Fuel Trim at Max Limit
P029B	Cylinder 1 - Fuel Trim at Min Limit
P029C	Cylinder 1 - Injector Restricted
P029D	Cylinder 1 - Injector Leaking
P029E	Cylinder 2 - Fuel Trim at Max Limit
P029F	Cylinder 2 - Fuel Trim at Min Limit
P02A0	Cylinder 2 - Injector Restricted
P02A1	Cylinder 2 - Injector Leaking
P02A2	Cylinder 3 - Fuel Trim at Max Limit
P02A3	Cylinder 3 - Fuel Trim at Min Limit
P02A4	Cylinder 3 - Injector Restricted

P02A5	Cylinder 3 - Injector Leaking
P02A6	Cylinder 4 - Fuel Trim at Max Limit
P02A7	Cylinder 4 - Fuel Trim at Min Limit
P02A8	Cylinder 4 - Injector Restricted
P02A9	Cylinder 4 - Injector Leaking
P02AA	Cylinder 5 - Fuel Trim at Max Limit
P02AB	Cylinder 5 - Fuel Trim at Min Limit
P02AC	Cylinder 5 - Injector Restricted
P02AD	Cylinder 5 - Injector Leaking
P02AE	Cylinder 6 - Fuel Trim at Max Limit
P02AF	Cylinder 6 - Fuel Trim at Min Limit
P02B0	Cylinder 6 - Injector Restricted
P02B1	Cylinder 6 - Injector Leaking
P02B2	Cylinder 7 - Fuel Trim at Max Limit
P02B3	Cylinder 7 - Fuel Trim at Min Limit
P02B4	Cylinder 7 - Injector Restricted
P02B5	Cylinder 7 - Injector Leaking
P02B6	Cylinder 8 - Fuel Trim at Max Limit
P02B7	Cylinder 8 - Fuel Trim at Min Limit
P02B8	Cylinder 8 - Injector Restricted
P02B9	Cylinder 8 - Injector Leaking
P02BA	Cylinder 9 - Fuel Trim at Max Limit

P02BB	Cylinder 9 - Fuel Trim at Min Limit
P02BC	Cylinder 9 - Injector Restricted
P02BD	Cylinder 9 - Injector Leaking
P02BE	Cylinder 10 - Fuel Trim at Max Limit
P02BF	Cylinder 10 - Fuel Trim at Min Limit
P02C0	Cylinder 10 - Injector Restricted
P02C1	Cylinder 10 - Injector Leaking
P02C2	Cylinder 11 - Fuel Trim at Max Limit
P02C3	Cylinder 11 - Fuel Trim at Min Limit
P02C4	Cylinder 11 - Injector Restricted
P02C5	Cylinder 11 - Injector Leaking
P02C6	Cylinder 12 - Fuel Trim at Max Limit
P02C7	Cylinder 12 - Fuel Trim at Min Limit
P02C8	Cylinder 12 - Injector Restricted
P02C9	Cylinder 12 - Injector Leaking
P02CA	Turbocharger/Supercharger "B" Overboost Condition
P02CB	Turbocharger/Supercharger "B" Underboost Condition
P02CC	Cylinder 1 Fuel Injector Offset Learning At Min Limit
P02CD	Cylinder 1 Fuel Injector Offset Learning At Max Limit
P02CE	Cylinder 2 Fuel Injector Offset Learning At Min Limit
P02CF	Cylinder 2 Fuel Injector Offset Learning At Max Limit
P02D0	Cylinder 3 Fuel Injector Offset Learning At Min Limit

P02D1	Cylinder 3 Fuel Injector Offset Learning At Max Limit
P02D2	Cylinder 4 Fuel Injector Offset Learning At Min Limit
P02D3	Cylinder 4 Fuel Injector Offset Learning At Max Limit
P02D4	Cylinder 5 Fuel Injector Offset Learning At Min Limit
P02D5	Cylinder 5 Fuel Injector Offset Learning At Max Limit
P02D6	Cylinder 6 Fuel Injector Offset Learning At Min Limit
P02D7	Cylinder 6 Fuel Injector Offset Learning At Max Limit
P02D8	Cylinder 7 Fuel Injector Offset Learning At Min Limit
P02D9	Cylinder 7 Fuel Injector Offset Learning At Max Limit
P02DA	Cylinder 8 Fuel Injector Offset Learning At Min Limit
P02DB	Cylinder 8 Fuel Injector Offset Learning At Max Limit
P02DC	Cylinder 9 Fuel Injector Offset Learning At Min Limit
P02DD	Cylinder 9 Fuel Injector Offset Learning At Max Limit
P02DE	Cylinder 10 Fuel Injector Offset Learning At Min Limit
P02DF	Cylinder 10 Fuel Injector Offset Learning At Max Limit
P02E0	Diesel Intake Air Flow Control Circuit/Open
P02E1	Diesel Intake Air Flow Control Performance
P02E2	Diesel Intake Air Flow Control Circuit Low
P02E3	Diesel Intake Air Flow Control Circuit High
P02E4	Diesel Intake Air Flow Control Stuck Open
P02E5	Diesel Intake Air Flow Control Stuck Closed
P02E6	Diesel Intake Air Flow Position Sensor Circuit

P02E7	Diesel Intake Air Flow Position Sensor Circuit Range/Performance
P02E8	Diesel Intake Air Flow Position Sensor Circuit Low
P02E9	Diesel Intake Air Flow Position Sensor Circuit High
P02EA	Diesel Intake Air Flow Position Sensor Circuit Intermittent/Erratic
P02EB	Diesel Intake Air Flow Control Motor Current Range/Performance
P02EC	Diesel Intake Air Flow Control System - High Air Flow Detected
P02ED	Diesel Intake Air Flow Control System - Low Air Flow Detected
P02EE	Cylinder 1 Injector Circuit Range/Performance
P02EF	Cylinder 2 Injector Circuit Range/Performance
P02F0	Cylinder 3 Injector Circuit Range/Performance
P02F1	Cylinder 4 Injector Circuit Range/Performance
P02F2	Cylinder 5 Injector Circuit Range/Performance
P02F3	Cylinder 6 Injector Circuit Range/Performance
P02F4	Cylinder 7 Injector Circuit Range/Performance
P02F5	Cylinder 8 Injector Circuit Range/Performance
P02F6	Cylinder 9 Injector Circuit Range/Performance
P02F7	Cylinder 10 Injector Circuit Range/Performance
P02F8	Cylinder 11 Injector Circuit Range/Performance
P02F9	Cylinder 12 Injector Circuit Range/Performance

POXXX

P02FA

Diesel Intake Air Flow Position Sensor Minimum/Maximum Stop

Code	Definition
P0300	Random/Multiple Cylinder Misfire Detected
P0301	Cylinder 1 Misfire Detected
P0302	Cylinder 2 Misfire Detected
P0303	Cylinder 3 Misfire Detected
P0304	Cylinder 4 Misfire Detected
P0305	Cylinder 5 Misfire Detected
P0306	Cylinder 6 Misfire Detected
P0307	Cylinder 7 Misfire Detected
P0308	Cylinder 8 Misfire Detected
P0309	Cylinder 9 Misfire Detected
P0310	Cylinder 10 Misfire Detected
P0311	Cylinder 11 Misfire Detected
P0312	Cylinder 12 Misfire Detected
P0313	Misfire Detected With Low Fuel
P0314	Single Cylinder Misfire (Cylinder not Specified)
P0315	Crankshaft Position System Variation not Learned
P0316	Engine Misfire Detected on Startup (First 1000 Revolutions)
P0317	Rough Road Hardware not Present
P0318	Rough Road Sensor "A" Signal Circuit
P0319	Rough Road Sensor "B" Signal Circuit
P0320	Ignition/Distributor Engine Speed Input Circuit
P0321	Ignition/Distributor Engine Speed Input Circuit Range/Performance
P0322	Ignition/Distributor Engine Speed Input Circuit no Signal
P0323	Ignition/Distributor Engine Speed Input Circuit Intermittent
P0324	Knock Control System Error

P0325	Knock Sensor 1 Circuit
P0326	Knock Sensor 1 Circuit Range/Performance
P0327	Knock Sensor 1 Circuit Low
P0328	Knock Sensor 1 Circuit High
P0329	Knock Sensor 1 Circuit Intermittent
P032A	Knock Sensor 3 Circuit
P032B	Knock Sensor 3 Circuit Range/Performance
P032C	Knock Sensor 3 Circuit Low
P032D	Knock Sensor 3 Circuit High
P032E	Knock Sensor 3 Circuit Intermittent
P0330	Knock Sensor 2 Circuit
P0331	Knock Sensor 2 Circuit Range/Performance
P0332	Knock Sensor 2 Circuit Low
P0333	Knock Sensor 2 Circuit High
P0334	Knock Sensor 2 Circuit Intermittent
P0335	Crankshaft Position Sensor "A" Circuit
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance
P0337	Crankshaft Position Sensor "A" Circuit Low
P0338	Crankshaft Position Sensor "A" Circuit High
P0339	Crankshaft Position Sensor "A" Circuit Intermittent
P033A	Knock Sensor 4 Circuit
P033B	Knock Sensor 4 Circuit Range/Performance
P033C	Knock Sensor 4 Circuit Low
P033D	Knock Sensor 4 Circuit High
P033E	Knock Sensor 4 Circuit Intermittent
P0340	Camshaft Position Sensor "A" Circuit
P0341	Camshaft Position Sensor "A" Circuit Range/Performance
P0342	Camshaft Position Sensor "A" Circuit Low

P0343	Camshaft Position Sensor "A" Circuit High
P0344	Camshaft Position Sensor "A" Circuit Intermittent
P0345	Camshaft Position Sensor "A" Circuit
P0346	Camshaft Position Sensor "A" Circuit Range/Performance
P0347	Camshaft Position Sensor "A" Circuit Low
P0348	Camshaft Position Sensor "A" Circuit High
P0349	Camshaft Position Sensor "A" Circuit Intermittent
P0350	Ignition Coil Primary/Secondary Circuit
P0351	Ignition Coil "A" Primary/Secondary Circuit
P0352	Ignition Coil "B" Primary/Secondary Circuit
P0353	Ignition Coil "C" Primary/Secondary Circuit
P0354	Ignition Coil "D" Primary/Secondary Circuit
P0355	Ignition Coil "E" Primary/Secondary Circuit
P0356	Ignition Coil "F" Primary/Secondary Circuit
P0357	Ignition Coil "G" Primary/Secondary Circuit
P0358	Ignition Coil "H" Primary/Secondary Circuit
P0359	Ignition Coil "I" Primary/Secondary Circuit
P0360	Ignition Coil "J" Primary/Secondary Circuit
P0361	Ignition Coil "K" Primary/Secondary Circuit
P0362	Ignition Coil "L" Primary/Secondary Circuit
P0363	Misfire Detected - Fueling Disabled
P0365	Camshaft Position Sensor "B" Circuit
P0366	Camshaft Position Sensor "B" Circuit Range/Performance
P0367	Camshaft Position Sensor "B" Circuit Low
P0368	Camshaft Position Sensor "B" Circuit High
P0369	mshaft Position Sensor "B" Circuit Intermittent
P0370	Timing Reference High Resolution Signal "A"

P0371	Timing Reference High Resolution Signal "A" Too Many Pulses
P0372	Timing Reference High Resolution Signal "A" Too Few Pulses
P0373	Timing Reference High Resolution Signal "A" Intermittent/Erratic
P0374	Timing Reference High Resolution Signal "A" no Pulses
P0375	Timing Reference High Resolution Signal "B"
P0376	Timing Reference High Resolution Signal "B" Too Many Pulses
P0377	Timing Reference High Resolution Signal "B" Too Few Pulses
P0378	Timing Reference High Resolution Signal "B" Intermittent/Erratic
P0379	Timing Reference High Resolution Signal "B" no Pulses
P037D	Glow Plug Sense Circuit
P037E	Glow Plug Sense Circuit Low
P037F	Glow Plug Sense Circuit High
P0380	Glow Plug/Heater Circuit "A"
P0381	Glow Plug/Heater Indicator Circuit
P0382	Glow Plug/Heater Circuit "B"
P0383	Glow Plug Control Module Control Circuit Low
P0384	Glow Plug Control Module Control Circuit High
P0385	Crankshaft Position Sensor "B" Circuit
P0386	Crankshaft Position Sensor "B" Circuit Range/Performance
P0387	Crankshaft Position Sensor "B" Circuit Low
P0388	Crankshaft Position Sensor "B" Circuit High
P0389	Crankshaft Position Sensor "B" Circuit Intermittent
P0390	Camshaft Position Sensor "B" Circuit

P0391	Camshaft Position Sensor "B" Circuit Range/Performance
P0392	Camshaft Position Sensor "B" Circuit Low
P0393	Camshaft Position Sensor "B" Circuit High
P0394	Camshaft Position Sensor "B" Circuit Intermittent

Code	Definition
P0400	Exhaust Gas Recirculation "A" Flow
P0401	Exhaust Gas Recirculation "A" Flow Insufficient Detected
P0402	Exhaust Gas Recirculation "A" Flow Excessive Detected
P0403	Exhaust Gas Recirculation "A" Control Circuit
P0404	Exhaust Gas Recirculation "A" Control Circuit Range/Performance
P0405	Exhaust Gas Recirculation Sensor "A" Circuit Low
P0406	Exhaust Gas Recirculation Sensor "A" Circuit High
P0407	Exhaust Gas Recirculation Sensor "B" Circuit Low
P0408	Exhaust Gas Recirculation Sensor "B" Circuit High
P0409	Exhaust Gas Recirculation Sensor "A" Circuit
P040A	Exhaust Gas Recirculation Temperature Sensor "A" Circuit
P040B	Exhaust Gas Recirculation Temperature Sensor "A" Circuit
P040C	Exhaust Gas Recirculation Temperature Sensor "A" Circuit Low
P040D	Exhaust Gas Recirculation Temperature Sensor "A" Circuit High
P040E	Exhaust Gas Recirculation Temperature Sensor "A" Circuit
P040F	Exhaust Gas Recirculation Temperature Sensor "A"/"B" Correlation
P0410	Secondary Air Injection System
P0411	Secondary Air Injection System Incorrect Flow Detected
P0412	Secondary Air Injection System Switching Valve "A" Circuit
P0413	Secondary Air Injection System Switching Valve "A" Circuit Open
P0414	Secondary Air Injection System Switching Valve "A" Circuit Shorted
P0415	Secondary Air Injection System Switching Valve "B" Circuit

P0416	Secondary Air Injection System Switching Valve "B" Circuit Open
P0417	Secondary Air Injection System Switching Valve "B" Circuit Shorted
P0418	Secondary Air Injection System Control "A" Circuit
P0419	Secondary Air Injection System Control "B" Circuit
P041A	Exhaust Gas Recirculation Temperature Sensor "B" Circuit
P041B	Exhaust Gas Recirculation Temperature Sensor "B" Circuit
P041C	Exhaust Gas Recirculation Temperature Sensor "B" Circuit Low
P041D	Exhaust Gas Recirculation Temperature Sensor "B" Circuit High
P041E	Exhaust Gas Recirculation Temperature Sensor "B" Circuit
P041F	Secondary Air Injection System Switching Valve "A" Circuit Low
P0420	Catalyst System Efficiency Below Threshold
p0421	Warm Up Catalyst Efficiency Below Threshold
p0422	Main Catalyst Efficiency Below Threshold
p0423	Heated Catalyst Efficiency Below Threshold
p0424	Heated Catalyst Temperature Below Threshold
p0425	Catalyst Temperature Sensor Circuit
p0426	Catalyst Temperature Sensor Circuit Range/Performance
p0427	Catalyst Temperature Sensor Circuit Low
p0428	Catalyst Temperature Sensor Circuit High
p0429	Catalyst Heater Control Circuit
P042A	Catalyst Temperature Sensor Circuit
P042B	Catalyst Temperature Sensor Circuit Range/Performance
P042C	Catalyst Temperature Sensor Circuit Low
P042D	Catalyst Temperature Sensor Circuit High

P042E	Exhaust Gas Recirculation "A" Control Stuck Open
P042F	Exhaust Gas Recirculation "A" Control Stuck Closed
p0430	Catalyst System Efficiency Below Threshold
p0431	Warm Up Catalyst Efficiency Below Threshold
p0432	Main Catalyst Efficiency Below Threshold
p0433	Heated Catalyst Efficiency Below Threshold
p0434	Heated Catalyst Temperature Below Threshold
p0435	Catalyst Temperature Sensor Circuit
p0436	Catalyst Temperature Sensor Circuit Range/Performance
p0437	Catalyst Temperature Sensor Circuit Low
p0438	Catalyst Temperature Sensor Circuit High
p0439	Catalyst Heater Control Circuit
P043A	Catalyst Temperature Sensor Circuit
P043B	Catalyst Temperature Sensor Circuit Range/Performance
P043C	Catalyst Temperature Sensor Circuit Low
P043D	Catalyst Temperature Sensor Circuit High
P043E	Evaporative Emission System Leak Detection Reference Orifice
P043F	Evaporative Emission System Leak Detection Reference Orifice
p0440	Evaporative Emission System
p0441	Evaporative Emission System Incorrect Purge Flow
p0442	Evaporative Emission System Leak Detected (small leak)
p0443	Evaporative Emission System Purge Control Valve Circuit
p0444	Evaporative Emission System Purge Control Valve Circuit Open
p0445	Evaporative Emission System Purge Control Valve Circuit Shorted
p0446	Evaporative Emission System Vent Control Circuit

p0447	Evaporative Emission System Vent Control Circuit Open
p0448	Evaporative Emission System Vent Control Circuit Shorted
p0449	Evaporative Emission System Vent Valve/Solenoid Circuit
P044A	Exhaust Gas Recirculation Sensor "C" Circuit
P044B	Exhaust Gas Recirculation Sensor "C" Circuit Range/Performance
P044C	Exhaust Gas Recirculation Sensor "C" Circuit Low
P044D	Exhaust Gas Recirculation Sensor "C" Circuit High
P044E	Exhaust Gas Recirculation Sensor "C" Circuit Intermittent/Erratic
P044F	Secondary Air Injection System Switching Valve "A" Circuit High
p0450	Evaporative Emission System Pressure Sensor/Switch
p0451	Evaporative Emission System Pressure Sensor/Switch
p0452	Evaporative Emission System Pressure Sensor/Switch Low
p0453	Evaporative Emission System Pressure Sensor/Switch High
p0454	Evaporative Emission System Pressure Sensor/Switch Intermittent
p0455	Evaporative Emission System Leak Detected (large leak)
p0456	Evaporative Emission System Leak Detected (very small leak)
p0457	Evaporative Emission System Leak Detected (fuel cap loose/off)
p0458	Evaporative Emission System Purge Control Valve Circuit Low
p0459	Evaporative Emission System Purge Control Valve Circuit High
P045A	Exhaust Gas Recirculation "B" Control Circuit

P045B	Exhaust Gas Recirculation "B" Control Circuit Range/Performance
P045C	Exhaust Gas Recirculation "B" Control Circuit Low
P045D	Exhaust Gas Recirculation "B" Control Circuit High
P045E	Exhaust Gas Recirculation "B" Control Stuck Open
P045F	Exhaust Gas Recirculation "B" Control Stuck Closed
p0460	Fuel Level Sensor "A" Circuit
p0461	Fuel Level Sensor "A" Circuit Range/Performance
p0462	Fuel Level Sensor "A" Circuit Low
p0463	Fuel Level Sensor "A" Circuit High
p0464	Fuel Level Sensor "A" Circuit Intermittent
p0465	EVAP Purge Flow Sensor Circuit
p0466	EVAP Purge Flow Sensor Circuit Range/Performance
p0467	EVAP Purge Flow Sensor Circuit Low
p0468	EVAP Purge Flow Sensor Circuit High
p0469	EVAP Purge Flow Sensor Circuit Intermittent
P046A	Catalyst Temperature Sensor 1/2 Correlation
P046B	Catalyst Temperature Sensor 1/2 Correlation
P046C	Exhaust Gas Recirculation Sensor "A" Circuit Range/Performance
P046D	Exhaust Gas Recirculation Sensor "A" Circuit Intermittent/Erratic
P046E	Exhaust Gas Recirculation Sensor "B" Circuit Range/Performance
P046F	Exhaust Gas Recirculation Sensor "B" Circuit Intermittent/Erratic
p0470	Exhaust Pressure Sensor "A" Circuit
p0471	Exhaust Pressure Sensor "A" Circuit Range/Performance
p0472	Exhaust Pressure Sensor "A" Circuit Low

p0473	Exhaust Pressure Sensor "A" Circuit High
p0474	Exhaust Pressure Sensor "A" Circuit Intermittent/Erratic
p0475	Exhaust Pressure Control Valve "A"
p0476	Exhaust Pressure Control Valve "A" Range/Performance
p0477	Exhaust Pressure Control Valve "A" Low
p0478	Exhaust Pressure Control Valve "A" High
p0479	Exhaust Pressure Control Valve "A" Intermittent
P047A	Exhaust Pressure Sensor "B" Circuit
P047B	Exhaust Pressure Sensor "B" Circuit Range/Performance
P047C	Exhaust Pressure Sensor "B" Circuit Low
P047D	Exhaust Pressure Sensor "B" Circuit High
P047E	Exhaust Pressure Sensor "B" Circuit Intermittent/Erratic
P047F	Exhaust Pressure Control Valve "A" Stuck Open
p0480	Fan 1 Control Circuit
p0481	Fan 2 Control Circuit
p0482	Fan 3 Control Circuit
p0483	Fan Rationality Check
p0484	Fan Circuit Over Current
p0485	Fan Power/Ground Circuit
p0486	Exhaust Gas Recirculation Sensor "B" Circuit
p0487	Exhaust Gas Recirculation Throttle Control Circuit "A" /Open
p0488	Exhaust Gas Recirculation Throttle Control Circuit "A"
p0489	Exhaust Gas Recirculation "A" Control Circuit Low
P048A	Exhaust Pressure Control Valve "A" Stuck Closed
P048B	Exhaust Pressure Control Valve Position Sensor/Switch Circuit
P048C	Exhaust Pressure Control Valve Position Sensor/Switch Circuit

P048D	Exhaust Pressure Control Valve Position Sensor/Switch Circuit Low
P048E	Exhaust Pressure Control Valve Position Sensor/Switch Circuit
P048F	Exhaust Pressure Control Valve Position Sensor/Switch Circuit
p0490	Exhaust Gas Recirculation "A" Control Circuit High
p0491	Secondary Air Injection System Insufficient Flow
p0492	Secondary Air Injection System Insufficient Flow
p0493	Fan Overspeed
p0494	Fan Speed Low
p0495	Fan Speed High
p0496	Evaporative Emission System High Purge Flow
p0497	Evaporative Emission System Low Purge Flow
p0498	Evaporative Emission System Vent Valve Control Circuit Low
p0499	Evaporative Emission System Vent Valve Control Circuit High
P049A	Exhaust Gas Recirculation "B" Flow
P049B	Exhaust Gas Recirculation "B" Flow Insufficient Detected
P049C	Exhaust Gas Recirculation "B" Flow Excessive Detected
P049D	Exhaust Gas Recirculation "A" Control Position Exceeded Learning
P049E	Exhaust Gas Recirculation "B" Control Position Exceeded Learning
P049F	Exhaust Pressure Control Valve "B"
P04AO	Exhaust Pressure Control Valve "B" Range/Performance
P04A1	Exhaust Pressure Control Valve "B" Low
P04A2	Exhaust Pressure Control Valve "B" High

P04A3	Exhaust Pressure Control Valve "B" Intermittent
P04A4	Exhaust Pressure Control Valve "B" Stuck Open
P04A5	Exhaust Pressure Control Valve "B" Stuck Closed
P04A6	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit
P04A7	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit
P04A8	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit
P04A9	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit
P04AA	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit

Code	Definition
P0500	Vehicle Speed Sensor "A"
P0501	Vehicle Speed Sensor "A" Range/Performance
P0502	Vehicle Speed Sensor "A" Circuit Low
P0503	Vehicle Speed Sensor "A" Intermittent/Erratic/High
P0504	Brake Switch "A"/"B" Correlation
P0505	Idle Air Control System
P0506	Idle Air Control System RPM Lower Than Expected
P0507	Idle Air Control System RPM Higher Than Expected
P0508	Idle Air Control System Circuit Low
P0509	Idle Air Control System Circuit High
P050A	Cold Start Idle Air Control System Performance
P050B	Cold Start Ignition Timing Performance
P050C	Cold Start Engine Coolant Temperature Performance
P050D	Cold Start Rough Idle
P050E	Cold Start Engine Exhaust Temperature Too Low
P050F	Brake Assist Vacuum Too Low
P0510	Closed Throttle Position Switch
P0511	Idle Air Control Circuit
P0512	Starter Request Circuit
P0513	Incorrect Immobilizer Key
P0514	Battery Temperature Sensor Circuit Range/Performance
P0515	Battery Temperature Sensor Circuit
P0516	Battery Temperature Sensor Circuit Low
P0517	Battery Temperature Sensor Circuit High
P0518	Idle Air Control Circuit Intermittent
P0519	Idle Air Control System Performance
P051A	Crankcase Pressure Sensor Circuit

P051B	Crankcase Pressure Sensor Circuit Range/Performance
P051C	Crankcase Pressure Sensor Circuit Low
P051D	Crankcase Pressure Sensor Circuit High
P051E	Crankcase Pressure Sensor Circuit Intermittent/Erratic
P051F	Positive Crankcase Ventilation Filter Restriction
P0520	Engine Oil Pressure Sensor/Switch Circuit
P0521	Engine Oil Pressure Sensor/Switch Range/Performance
P0522	Engine Oil Pressure Sensor/Switch Low
P0523	Engine Oil Pressure Sensor/Switch High
P0524	Engine Oil Pressure Too Low
P0525	Cruise Control Servo Control Circuit Range/Performance
P0526	Fan Speed Sensor Circuit
P0527	Fan Speed Sensor Circuit Range/Performance
P0528	Fan Speed Sensor Circuit no Signal
P0529	Fan Speed Sensor Circuit Intermittent
P052A	Cold Start "A" Camshaft Position Timing Over-Advanced
P052B	Cold Start "A" Camshaft Position Timing Over-Retarded
P052C	Cold Start "A" Camshaft Position Timing Over-Advanced
P052D	Cold Start "A" Camshaft Position Timing Over-Retarded
P052E	Positive Crankcase Ventilation Regulator Valve Performance
P0530	A/C Refrigerant Pressure Sensor "A" Circuit
P0531	A/C Refrigerant Pressure Sensor "A" Circuit Range/Performance
P0532	A/C Refrigerant Pressure Sensor "A" Circuit Low
P0533	A/C Refrigerant Pressure Sensor "A" Circuit High
P0534	A/C Refrigerant Charge Loss
P0535	A/C Evaporator Temperature Sensor Circuit

P0536	A/C Evaporator Temperature Sensor Circuit Range/Performance
P0537	A/C Evaporator Temperature Sensor Circuit Low
P0538	A/C Evaporator Temperature Sensor Circuit High
P0539	A/C Evaporator Temperature Sensor Circuit Intermittent
P053A	Positive Crankcase Ventilation Heater Control Circuit /Open
P053B	Positive Crankcase Ventilation Heater Control Circuit Low
P053C	Positive Crankcase Ventilation Heater Control Circuit High
P0540	Intake Air Heater "A" Circuit
P0541	Intake Air Heater "A" Circuit Low
P0542	Intake Air Heater "A" Circuit High
P0543	Intake Air Heater "A" Circuit Open
P0544	Exhaust Gas Temperature Sensor Circuit
P0545	Exhaust Gas Temperature Sensor Circuit Low
P0546	Exhaust Gas Temperature Sensor Circuit High
P0547	Exhaust Gas Temperature Sensor Circuit
P0548	Exhaust Gas Temperature Sensor Circuit Low
P0549	Exhaust Gas Temperature Sensor Circuit High
P054A	Cold Start "B" Camshaft Position Timing Over-Advanced
P054B	Cold Start "B" Camshaft Position Timing Over-Retarded
P054C	Cold Start "B" Camshaft Position Timing Over-Advanced
P054D	Cold Start "B" Camshaft Position Timing Over-Retarded
P0550	Power Steering Pressure Sensor/Switch Circuit
P0551	Power Steering Pressure Sensor/Switch Circuit
P0552	Power Steering Pressure Sensor/Switch Circuit Low
P0553	Power Steering Pressure Sensor/Switch Circuit High
P0554	Power Steering Pressure Sensor/Switch Circuit Intermittent
P0555	Brake Booster Pressure Sensor Circuit

P0556	Brake Booster Pressure Sensor Circuit Range/Performance
P0557	Brake Booster Pressure Sensor Circuit Low
P0558	Brake Booster Pressure Sensor Circuit High
P0559	Brake Booster Pressure Sensor Circuit Intermittent
P0560	System Voltage
P0561	System Voltage Unstable
P0562	System Voltage Low
P0563	System Voltage High
P0564	Cruise Control Multi-Function Input "A" Circuit
P0565	Cruise Control "On" Signal
P0566	Cruise Control "Off" Signal
P0567	Cruise Control "Resume" Signal
P0568	Cruise Control "Set" Signal
P0569	Cruise Control "Coast" Signal
P056A	Cruise Control "Increase Distance" Signal
P056B	Cruise Control "Decrease Distance" Signal
P0570	Cruise Control "Accelerate" Signal
P0571	Brake Switch "A" Circuit
P0572	Brake Switch "A" Circuit Low
P0573	Brake Switch "A" Circuit High
P0574	Cruise Control System - Vehicle Speed Too High
P0575	Cruise Control Input Circuit
P0576	Cruise Control Input Circuit Low
P0577	Cruise Control Input Circuit High
P0578	Cruise Control Multi-Function Input "A" Circuit Stuck
P0579	Cruise Control Multi-Function Input "A" Circuit Range/Performance
P0580	Cruise Control Multi-Function Input "A" Circuit Low

P0581	Cruise Control Multi-Function Input "A" Circuit High
P0582	Cruise Control Vacuum Control Circuit/Open
P0583	Cruise Control Vacuum Control Circuit Low
P0584	Cruise Control Vacuum Control Circuit High
P0585	Cruise Control Multi-Function Input "A"/"B" Correlation
P0586	Cruise Control Vent Control Circuit/Open
P0587	Cruise Control Vent Control Circuit Low
P0588	Cruise Control Vent Control Circuit High
P0589	Cruise Control Multi-Function Input "B" Circuit
P0590	Cruise Control Multi-Function Input "B" Circuit Stuck
P0591	Cruise Control Multi-Function Input "B" Circuit Range/Performance
P0592	Cruise Control Multi-Function Input "B" Circuit Low
P0593	Cruise Control Multi-Function Input "B" Circuit High
P0594	Cruise Control Servo Control Circuit/Open
P0595	Cruise Control Servo Control Circuit Low
P0596	Cruise Control Servo Control Circuit High
P0597	Thermostat Heater Control Circuit/Open
P0598	Thermostat Heater Control Circuit Low
P0599	Thermostat Heater Control Circuit High

Code	Definition
P0600	Serial Communication Link
P0601	Internal Control Module Memory Check Sum Error
P0602	Control Module Programming Error
P0603	Internal Control Module Keep Alive Memory (KAM) Error
P0604	Internal Control Module Random Access Memory (RAM) Error
P0605	Internal Control Module Read Only Memory (ROM) Error
P0606	Control Module Processor
P0607	Control Module Performance
P0608	Control Module VSS Output "A"
P0609	Control Module VSS Output "B"
P060A	Internal Control Module Monitoring Processor Performance
P060B	Internal Control Module A/D Processing Performance
P060C	Internal Control Module Main Processor Performance
P060D	Internal Control Module Accelerator Pedal Position Performance
P060E	Internal Control Module Throttle Position Performance
P060E	Internal Control Module Coolant Temperature Performance
P0610	Control Module Vehicle Options Error
P0611	Fuel Injector Control Module Performance
P0612	Fuel Injector Control Module Relay Control
P0613	TCM Processor
P0614	ECM/TCM Incompatible
P0615	Starter Relay Circuit
P0616	Starter Relay Circuit Low
P0617	Starter Relay Circuit High

P0618	Alternative Fuel Control Module KAM Error
P0619	Alternative Fuel Control Module RAM/ROM Error
P061A	Internal Control Module Torque Performance
P061B	Internal Control Module Torque Calculation Performance
P061C	Internal Control Module Engine RPM Performance
P061D	Internal Control Module Engine Air Mass Performance
P061E	Internal Control Module Brake Signal Performance
P061F	Internal Control Module Throttle Actuator Controller Performance
P0620	Generator Control Circuit
P0621	Generator Lamp/L Terminal Circuit
P0622	Generator Field/F Terminal Circuit
P0623	Generator Lamp Control Circuit
P0624	Fuel Cap Lamp Control Circuit
P0625	Generator Field/F Terminal Circuit Low
P0626	Generator Field/F Terminal Circuit High
P0627	Fuel Pump "A" Control Circuit/Open
P0628	Fuel Pump "A" Control Circuit Low
P0629	Fuel Pump "A" Control Circuit High
P062A	Fuel Pump "A" Control Circuit Range/Performance
P062B	Internal Control Module Fuel Injector Control Performance
P062C	Internal Control Module Vehicle Speed Performance
P062D	Fuel Injector Driver Circuit Performance
P062E	Fuel Injector Driver Circuit Performance
P062F	Internal Control Module EEPROM Error
P0630	VIN not Programmed or Incompatible - ECM/PCM
P0631	VIN not Programmed or Incompatible - TCM

P0632	Odometer not Programmed - ECM/PCM
P0633	Immobilizer Key not Programmed - ECM/PCM
P0634	PCM/ECM/TCM Internal Temperature "A" Too High
P0635	Power Steering Control Circuit
P0636	Power Steering Control Circuit Low
P0637	Power Steering Control Circuit High
P0638	Throttle Actuator Control Range/Performance
P0639	Throttle Actuator Control Range/Performance
P063A	Generator Voltage Sense Circuit
P063B	Generator Voltage Sense Circuit Range/Performance
P063C	Generator Voltage Sense Circuit Low
P063D	Generator Voltage Sense Circuit High
P063E	Auto Configuration Throttle Input not Present
P063F	Auto Configuration Engine Coolant Temperature Input not Present
P0640	Intake Air Heater Control Circuit
P0641	Sensor Reference Voltage "A" Circuit/Open
P0642	Sensor Reference Voltage "A" Circuit Low
P0643	Sensor Reference Voltage "A" Circuit High
P0644	Driver Display Serial Communication Circuit
P0645	A/C Clutch Relay Control Circuit
P0646	A/C Clutch Relay Control Circuit Low
P0647	A/C Clutch Relay Control Circuit High
P0648	Immobilizer Lamp Control Circuit
P0649	Speed Control Lamp Control Circuit
P064A	Fuel Pump Control Module
P064B	PTO Control Module
P064C	Glow Plug Control Module

P064D	Internal Control Module O2 Sensor Processor Performance
P064E	Internal Control Module O2 Sensor Processor Performance
P064F	Unauthorized Software/Calibration Detected
P0650	Malfunction Indicator Lamp (MIL) Control Circuit
P0651	Sensor Reference Voltage "B" Circuit/Open
P0652	Sensor Reference Voltage "B" Circuit Low
P0653	Sensor Reference Voltage "B" Circuit High
P0654	Engine RPM Output Circuit
P0655	Engine Hot Lamp Output Control Circuit
P0656	Fuel Level Output Circuit
P0657	Actuator Supply Voltage "A" Circuit/Open
P0658	Actuator Supply Voltage "A" Circuit Low
P0659	Actuator Supply Voltage "A" Circuit High
P065A	Generator System Performance
P065B	Generator Control Circuit Range/Performance
P065C	Generator Mechanical Performance
P065D	Reductant System Malfunction Lamp Control Circuit
P065E	Intake Manifold Tuning Valve Performance
P065F	Intake Manifold Tuning Valve Performance
P0660	Intake Manifold Tuning Valve Control Circuit/Open
P0661	Intake Manifold Tuning Valve Control Circuit Low
P0662	Intake Manifold Tuning Valve Control Circuit High
P0663	Intake Manifold Tuning Valve Control Circuit/Open
P0664	Intake Manifold Tuning Valve Control Circuit Low
P0665	Intake Manifold Tuning Valve Control Circuit High
P0666	PCM/ECM/TCM Internal Temperature Sensor "A" Circuit
P0667	PCM/ECM/TCM Internal Temperature Sensor "A"

P0668	PCM/ECM/TCM Internal Temperature Sensor "A" Circuit Low
P0669	PCM/ECM/TCM Internal Temperature Sensor "A" Circuit High
P066A	Cylinder 1 Glow Plug Control Circuit Low
P066B	Cylinder 1 Glow Plug Control Circuit High
P066C	Cylinder 2 Glow Plug Control Circuit Low
P066D	Cylinder 2 Glow Plug Control Circuit High
P066E	Cylinder 3 Glow Plug Control Circuit Low
P066F	Cylinder 3 Glow Plug Control Circuit High
P0670	Glow Plug Control Module Control Circuit/Open
P0671	Cylinder 1 Glow Plug Circuit/Open
P0672	Cylinder 2 Glow Plug Circuit/Open
P0673	Cylinder 3 Glow Plug Circuit/Open
P0674	Cylinder 4 Glow Plug Circuit/Open
P0675	Cylinder 5 Glow Plug Circuit/Open
P0676	Cylinder 6 Glow Plug Circuit/Open
P0677	Cylinder 7 Glow Plug Circuit/Open
P0678	Cylinder 8 Glow Plug Circuit/Open
P0679	Cylinder 9 Glow Plug Circuit/Open
P067A	Cylinder 4 Glow Plug Control Circuit Low
P067B	Cylinder 4 Glow Plug Control Circuit High
P067C	Cylinder 5 Glow Plug Control Circuit Low
P067D	Cylinder 5 Glow Plug Control Circuit High
P067E	Cylinder 6 Glow Plug Control Circuit Low
P067F	Cylinder 6 Glow Plug Control Circuit High
P0680	Cylinder 10 Glow Plug Circuit/Open
P0681	Cylinder 11 Glow Plug Circuit/Open

P0682	Cylinder 12 Glow Plug Circuit/Open
P0683	Glow Plug Control Module to PCM Communication Circuit
P0684	Glow Plug Control Module to PCM Communication Circuit
P0685	ECM/PCM Power Relay Control Circuit/Open
P0686	ECM/PCM Power Relay Control Circuit Low
P0687	ECM/PCM Power Relay Control Circuit High
P0688	ECM/PCM Power Relay Sense Circuit/Open
P0689	ECM/PCM Power Relay Sense Circuit Low
P068A	ECM/PCM Power Relay De-Energized Performance - Too Early
P068B	ECM/PCM Power Relay De-Energized Performance - Too Late
P068C	Cylinder 7 Glow Plug Control Circuit Low
P068D	Cylinder 7 Glow Plug Control Circuit High
P068E	Cylinder 8 Glow Plug Control Circuit Low
P068F	Cylinder 8 Glow Plug Control Circuit High
P0690	ECM/PCM Power Relay Sense Circuit High
P0691	Fan 1 Control Circuit Low
P0692	Fan 1 Control Circuit High
P0693	Fan 2 Control Circuit Low
P0694	Fan 2 Control Circuit High
P0695	Fan 3 Control Circuit Low
P0696	Fan 3 Control Circuit High
P0697	Sensor Reference Voltage "C" Circuit/Open
P0698	Sensor Reference Voltage "C" Circuit Low
P0699	Sensor Reference Voltage "C" Circuit High
P069A	Cylinder 9 Glow Plug Control Circuit Low
P069B	Cylinder 9 Glow Plug Control Circuit High

P069C	Cylinder 10 Glow Plug Control Circuit Low
P069D	Cylinder 10 Glow Plug Control Circuit High
P069E	Fuel Pump Control Module Requested MIL Illumination
P069F	Throttle Actuator Control Lamp Control Circuit
P06A0	Variable A/C Compressor Control Circuit
P06A1	Variable A/C Compressor Control Circuit Low
P06A2	Variable A/C Compressor Control Circuit High
P06A3	Sensor Reference Voltage "D" Circuit/Open
P06A4	Sensor Reference Voltage "D" Circuit Low
P06A5	Sensor Reference Voltage "D" Circuit High
P06A6	Sensor Reference Voltage "A" Circuit Range/Performance
P06A7	Sensor Reference Voltage "B" Circuit Range/Performance
P06A8	Sensor Reference Voltage "C" Circuit Range/Performance
P06A9	Sensor Reference Voltage "D" Circuit Range/Performance
P06AA	PCM/ECM/TCM Internal Temperature "B" Too High
P06AB	PCM/ECM/TCM Internal Temperature Sensor "B" Circuit
P06AC	PCM/ECM/TCM Internal Temperature Sensor "B"
P06AD	PCM/ECM/TCM Internal Temperature Sensor "B" Circuit Low
P06AE	PCM/ECM/TCM Internal Temperature Sensor "B" Circuit High
P06AF	Torque Management System - Forced Engine Shutdown
P06B0	Sensor Power Supply "A" Circuit/Open
P06B1	Sensor Power Supply "A" Circuit Low
P06B2	Sensor Power Supply "A" Circuit High
P06B3	Sensor Power Supply "B" Circuit/Open
P06B4	Sensor Power Supply "B" Circuit Low
P06B5	Sensor Power Supply "B" Circuit High

P06B6	Internal Control Module Knock Sensor Processor 1 Performance
P06B7	Internal Control Module Knock Sensor Processor 2 Performance
P06B8	Internal Control Module non-Volatile Random Access Memory
P06B9	Cylinder 1 Glow Plug Circuit Range/Performance
P06BA	Cylinder 2 Glow Plug Circuit Range/Performance
P06BB	Cylinder 3 Glow Plug Circuit Range/Performance
P06BC	Cylinder 4 Glow Plug Circuit Range/Performance
P06BD	Cylinder 5 Glow Plug Circuit Range/Performance
P06BE	Cylinder 6 Glow Plug Circuit Range/Performance
P06BF	Cylinder 7 Glow Plug Circuit Range/Performance
P06C0	Cylinder 8 Glow Plug Circuit Range/Performance
P06C1	Cylinder 9 Glow Plug Circuit Range/Performance
P06C2	Cylinder 10 Glow Plug Circuit Range/Performance
P06C3	Cylinder 11 Glow Plug Circuit Range/Performance
P06C4	Cylinder 12 Glow Plug Circuit Range/Performance
P06C5	Cylinder 1 Glow Plug Incorrect
P06C6	Cylinder 2 Glow Plug Incorrect
P06C7	Cylinder 3 Glow Plug Incorrect
P06C8	Cylinder 4 Glow Plug Incorrect
P06C9	Cylinder 5 Glow Plug Incorrect
P06CA	Cylinder 6 Glow Plug Incorrect
P06CB	Cylinder 7 Glow Plug Incorrect
P06CC	Cylinder 8 Glow Plug Incorrect
P06CD	Cylinder 9 Glow Plug Incorrect
P06CE	Cylinder 10 Glow Plug Incorrect
P06CF	Cylinder 11 Glow Plug Incorrect

P06D0	Cylinder 12 Glow Plug Incorrect
P06D1	Internal Control Module Ignition Coil Control Performance

Code	Definition
P0700	Transmission Control System (MIL Request)
P0701	Transmission Control System Range/Performance
P0702	Transmission Control System Electrical
P0703	Brake Switch "B" Circuit
P0704	Clutch Switch Input Circuit
P0705	Transmission Range Sensor "A" Circuit (PRNDL Input)
P0706	Transmission Range Sensor "A" Circuit Range/Performance
P0707	Transmission Range Sensor "A" Circuit Low
P0708	Transmission Range Sensor "A" Circuit High
P0709	Transmission Range Sensor "A" Circuit Intermittent
P070A	Transmission Fluid Level Sensor Circuit
P070B	Transmission Fluid Level Sensor Circuit Range/Performance
P070C	Transmission Fluid Level Sensor Circuit Low
P070D	Transmission Fluid Level Sensor Circuit High
P070E	Transmission Fluid Level Sensor Circuit intermittent/Erratic
P070F	Transmission Fluid Level Too Low
P0710	Transmission Fluid Temperature Sensor "A" Circuit
P0711	Transmission Fluid Temperature Sensor "A" Circuit
P0712	Transmission Fluid Temperature Sensor "A" Circuit Low
P0713	Transmission Fluid Temperature Sensor "A" Circuit High
P0714	Transmission Fluid Temperature Sensor "A" Circuit Intermittent
P0715	Input/Turbine Speed Sensor "A" Circuit
P0716	Input/Turbine Speed Sensor "A" Circuit Range/Performance
P0717	Input/Turbine Speed Sensor "A" Circuit no Signal
P0718	Input/Turbine Speed Sensor "A" Circuit Intermittent

P0719	Brake Switch "B" Circuit Low
P071A	Transmission Mode Switch "A" Circuit
P071B	Transmission Mode Switch "A" Circuit Low
P071C	Transmission Mode Switch "A" Circuit High
P071D	Transmission Mode Switch "B" Circuit
P071E	Transmission Mode Switch "B" Circuit Low
P071F	Transmission Mode Switch "B" Circuit High
P0720	Output Speed Sensor Circuit
P0721	Output Speed Sensor Circuit Range/Performance
P0722	Output Speed Sensor Circuit no Signal
P0723	Output Speed Sensor Circuit Intermittent
P0724	Brake Switch "B" Circuit High
P0725	Engine Speed Input Circuit
P0726	Engine Speed Input Circuit Range/Performance
P0727	Engine Speed Input Circuit no Signal
P0728	Engine Speed Input Circuit Intermittent
P0729	Gear 6 Incorrect Ratio
P072A	Stuck in Neutral
P072B	Stuck In Reverse
P072C	Stuck in Gear 1
P072D	Stuck in Gear 2
P072E	Stuck in Gear 3
P072F	Stuck in Gear 4
P0730	Incorrect Gear Ratio
P0731	Gear 1 Incorrect Ratio
P0732	Gear 2 Incorrect Ratio
P0733	Gear 3 Incorrect Ratio
P0734	Gear 4 Incorrect Ratio

P0735	Gear 5 Incorrect Ratio
P0736	Reverse Incorrect Ratio
P0737	TCM Engine Speed Output Circuit
P0738	TCM Engine Speed Output Circuit Low
P0739	TCM Engine Speed Output Circuit High
P073A	Stuck in Gear 5
P073B	Stuck in Gear 6
P073C	Stuck in Gear 7
P073D	Unable to Engage Neutral
P073E	Unable to Engage Reverse
P073F	Unable to Engage Gear 1
P0740	Torque Converter Clutch Circuit/Open
P0741	Torque Converter Clutch Circuit Performance/Stuck Off
P0742	Torque Converter Clutch Circuit Stuck On
P0743	Torque Converter Clutch Circuit Electrical
P0744	Torque Converter Clutch Circuit Intermittent
P0745	Pressure Control Solenoid "A"
P0746	Pressure Control Solenoid "A" Performance/Stuck Off
P0747	Pressure Control Solenoid "A" Stuck On
P0748	Pressure Control Solenoid "A" Electrical
P0749	Pressure Control Solenoid "A" Intermittent
P074A	Unable To Engage Gear 2
P074B	Unable To Engage Gear 3
P074C	Unable To Engage Gear 4
P074D	Unable To Engage Gear 5
P074E	Unable To Engage Gear 6
P074F	Unable To Engage Gear 7
P0750	Shift Solenoid "A"

P0751	Shift Solenoid "A" Performance/Stuck Off
P0752	Shift Solenoid "A" Stuck On
P0753	Shift Solenoid "A" Electrical
P0754	Shift Solenoid "A" Intermittent
P0755	Shift Solenoid "B"
P0756	Shift Solenoid "B" Performance/Stuck Off
P0757	Shift Solenoid "B" Stuck On
P0758	Shift Solenoid "B" Electrical
P0759	Shift Solenoid "B" Intermittent
P075A	Shift Solenoid "G"
P075B	Shift Solenoid "G" Performance/Stuck Off
P075C	Shift Solenoid "G" Stuck On
P075D	Shift Solenoid "G" Electrical
P075E	Shift Solenoid "G" Intermittent
P075F	Transmission Fluid Level Too High
P0760	Shift Solenoid "C"
P0761	Shift Solenoid "C" Performance/Stuck Off
P0762	Shift Solenoid "C" Stuck On
P0763	Shift Solenoid "C" Electrical
P0764	Shift Solenoid "C" Intermittent
P0765	Shift Solenoid "D"
P0766	Shift Solenoid "D" Performance/Stuck Off
P0767	Shift Solenoid "D" Stuck On
P0768	Shift Solenoid "D" Electrical
P0769	Shift Solenoid "D" Intermittent
P076A	Shift Solenoid "H"
P076B	Shift Solenoid "H" Performance/Stuck Off
P076C	Shift Solenoid "H" Stuck On

P076D	Shift Solenoid "H" Electrical
P076E	Shift Solenoid "H" Intermittent
P076F	Gear 7 Incorrect Ratio
P0770	Shift Solenoid "E"
P0771	Shift Solenoid "E" Performance/Stuck Off
P0772	Shift Solenoid "E" Stuck On
P0773	Shift Solenoid "E" Electrical
P0774	Shift Solenoid "E" Intermittent
P0775	Pressure Control Solenoid "B"
P0776	Pressure Control Solenoid "B" Performance/Stuck Off
P0777	Pressure Control Solenoid "B" Stuck On
P0778	Pressure Control Solenoid "B" Electrical
P0779	Pressure Control Solenoid "B" Intermittent
P077A	Output Speed Sensor Circuit - Loss of Direction Signal
P077B	Output Speed Sensor Circuit - Direction Error
P0780	Shift Error
P0781	1-2 Shift
P0782	2-3 Shift
P0783	3-4 Shift
P0784	4-5 Shift
P0785	Shift Timing Solenoid "A"
P0786	Shift Timing Solenoid "A" Range/Performance
P0787	Shift Timing Solenoid "A" Low
P0788	Shift Timing Solenoid "A" High
P0789	Shift Timing Solenoid "A" Intermittent
P078A	Shift Timing Solenoid "B"
P078B	Shift Timing Solenoid "B" Range/Performance
P078C	Shift Timing Solenoid "B" Low

P078D	Shift Timing Solenoid "B" High
P078E	Shift Timing Solenoid "B" Intermittent
P0790	normal/Performance Switch Circuit
P0791	Intermediate Shaft Speed Sensor "A" Circuit
P0792	Intermediate Shaft Speed Sensor "A" Circuit Range/Performance
P0793	Intermediate Shaft Speed Sensor "A" Circuit no Signal
P0794	Intermediate Shaft Speed Sensor "A" Circuit Intermittent
P0795	Pressure Control Solenoid "C"
P0796	Pressure Control Solenoid "C" Performance/Stuck Off
P0797	Pressure Control Solenoid "C" Stuck On
P0798	Pressure Control Solenoid "C" Electrical
P0799	Pressure Control Solenoid "C" Intermittent
P079A	Transmission Friction Element "A" Slip Detected
P079B	Transmission Friction Element "B" Slip Detected
P079C	Transmission Friction Element "C" Slip Detected
P079D	Transmission Friction Element "D" Slip Detected
P079E	Transmission Friction Element "E" Slip Detected
P079F	Transmission Friction Element "F" Slip Detected
P07A0	Transmission Friction Element "G" Slip Detected
P07A1	Transmission Friction Element "H" Slip Detected
P07A2	Transmission Friction Element "A" Performance/Stuck Off
P07A3	Transmission Friction Element "A" Stuck On
P07A4	Transmission Friction Element "B" Performance/Stuck Off
P07A5	Transmission Friction Element "B" Stuck On
P07A6	Transmission Friction Element "C" Performance/Stuck Off
P07A7	Transmission Friction Element "C" Stuck On
P07A8	Transmission Friction Element "D" Performance/Stuck Off

P07A9	Transmission Friction Element "D" Stuck On
P07AA	Transmission Friction Element "E" Performance/Stuck Off
P07AB	Transmission Friction Element "E" Stuck On
P07AC	Transmission Friction Element "F" Performance/Stuck Off
P07AD	Transmission Friction Element "F" Stuck On
P07AE	Transmission Friction Element "G" Performance/Stuck Off
P07AF	Transmission Friction Element "G" Stuck On
P07B0	Transmission Friction Element "H" Performance/Stuck Off
P07B1	Transmission Friction Element "H" Stuck On
P07B2	Transmission Park Position Sensor/Switch "A" Circuit/Open
P07B3	Transmission Park Position Sensor/Switch "A" Circuit Low
P07B4	Transmission Park Position Sensor/Switch "A" Circuit High
P07B5	Transmission Park Position Sensor/Switch "A" Circuit
P07B6	Transmission Park Position Sensor/Switch "A" Circuit Performance
P07B7	Transmission Park Position Sensor/Switch "A" Circuit
P07B8	Transmission Park Position Sensor/Switch "B" Circuit/Open
P07B9	Transmission Park Position Sensor/Switch "B" Circuit Low
P07BA	Transmission Park Position Sensor/Switch "B" Circuit High
P07BB	Transmission Park Position Sensor/Switch "B" Circuit
P07BC	Transmission Park Position Sensor/Switch "B" Circuit Performance
P07BD	Transmission Park Position Sensor/Switch "B" Circuit
P07BE	Transmission Park Position Sensor/Switch "A"/"B" Correlation

Code	Definition
P0800	Transfer Case Control System (MIL Request)
P0801	Reverse Inhibit Control Circuit
P0802	Transmission Control System MIL Request Circuit/Open
P0803	Upshift/Skip Shift Solenoid Control Circuit
P0804	Upshift/Skip Shift Lamp Control Circuit
P0805	Clutch Position Sensor Circuit
P0806	Clutch Position Sensor Circuit Range/Performance
P0807	Clutch Position Sensor Circuit Low
P0808	Clutch Position Sensor Circuit High
P0809	Clutch Position Sensor Circuit Intermittent
P080A	Clutch Position not Learned
P080B	Upshift/Skip Shift Solenoid Control Circuit Range/Performance
P080C	Upshift/Skip Shift Solenoid Control Circuit Low
P080D	Upshift/Skip Shift Solenoid Control Circuit High
P0810	Clutch Position Control Error
P0811	Excessive Clutch "A" Slippage
P0812	Reverse Input Circuit
P0813	Reverse Output Circuit
P0814	Transmission Range Display Circuit
P0815	Upshift Switch Circuit
P0816	Downshift Switch Circuit
P0817	Starter Disable Circuit/Open
P0818	Driveline Disconnect Switch Input Circuit
P0819	Up and Down Shift Switch to Transmission Range Correlation
P081A	Starter Disable Circuit Low

P081B	Starter Disable Circuit High
P081C	Park Input Circuit
P081D	Neutral Input Circuit
P081E	Excessive Clutch "B" Slippage
P0820	Gear Lever X-Y Position Sensor Circuit
P0821	Gear Lever X Position Circuit
P0822	Gear Lever Y Position Circuit
P0823	Gear Lever X Position Circuit Intermittent
P0824	Gear Lever Y Position Circuit Intermittent
P0825	Gear Lever Push-Pull Switch (Shift Anticipate)
P0826	Up and Down Shift Switch Circuit
P0827	Up and Down Shift Switch Circuit Low
P0828	Up and Down Shift Switch Circuit High
P0829	5-6 Shift
P082A	Gear Lever X Position Circuit Range/Performance
P082B	Gear Lever X Position Circuit Low
P082C	Gear Lever X Position Circuit High
P082D	Gear Lever Y Position Circuit Range/Performance
P082E	Gear Lever Y Position Circuit Low
P082F	Gear Lever Y Position Circuit High
P0830	Clutch Pedal Switch "A" Circuit
P0831	Clutch Pedal Switch "A" Circuit Low
P0832	Clutch Pedal Switch "A" Circuit High
P0833	Clutch Pedal Switch "B" Circuit
P0834	Clutch Pedal Switch "B" Circuit Low
P0835	Clutch Pedal Switch "B" Circuit High
P0836	Four Wheel Drive (4WD) Switch Circuit

P0837	Four Wheel Drive (4WD) Switch Circuit Range/Performance
P0838	Four Wheel Drive (4WD) Switch Circuit Low
P0839	Four Wheel Drive (4WD) Switch Circuit High
P083A	Transmission Fluid Pressure Sensor/Switch "G" Circuit
P083B	Transmission Fluid Pressure Sensor/Switch "G" Circuit
P083C	Transmission Fluid Pressure Sensor/Switch "G" Circuit Low
P083D	Transmission Fluid Pressure Sensor/Switch "G" Circuit High
P083E	Transmission Fluid Pressure Sensor/Switch "G" Circuit Intermittent
P083F	Clutch Pedal Switch "A"/"B" Correlation
P0840	Transmission Fluid Pressure Sensor/Switch "A" Circuit
P0841	Transmission Fluid Pressure Sensor/Switch "A" Circuit
P0842	Transmission Fluid Pressure Sensor/Switch "A" Circuit Low
P0843	Transmission Fluid Pressure Sensor/Switch "A" Circuit High
P0844	Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent
P0845	Transmission Fluid Pressure Sensor/Switch "B" Circuit
P0846	Transmission Fluid Pressure Sensor/Switch "B" Circuit
P0847	Transmission Fluid Pressure Sensor/Switch "B" Circuit Low
P0848	Transmission Fluid Pressure Sensor/Switch "B" Circuit High
P0849	Transmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent
P084A	Transmission Fluid Pressure Sensor/Switch "H" Circuit
P084B	Transmission Fluid Pressure Sensor/Switch "H" Circuit
P084C	Transmission Fluid Pressure Sensor/Switch "H" Circuit Low
P084D	Transmission Fluid Pressure Sensor/Switch "H" Circuit High
P084E	Transmission Fluid Pressure Sensor/Switch "H" Circuit Intermittent

P084F	Park/Neutral Switch Output Circuit
P0850	Park/Neutral Switch Input Circuit
P0851	Park/Neutral Switch Input Circuit Low
P0852	Park/Neutral Switch Input Circuit High
P0853	Drive Switch Input Circuit
P0854	Drive Switch Input Circuit Low
P0855	Drive Switch Input Circuit High
P0856	Traction Control Input Signal
P0857	Traction Control Input Signal Range/Performance
P0858	Traction Control Input Signal Low
P0859	Traction Control Input Signal High
P085A	Gear Shift Control Module "B" Communication Circuit
P085B	Gear Shift Control Module "B" Communication Circuit Low
P085C	Gear Shift Control Module "B" Communication Circuit High
P085D	Gear Shift Control Module "A" Performance
P085E	Gear Shift Control Module "B" Performance
P0860	Gear Shift Control Module "A" Communication Circuit
P0861	Gear Shift Control Module "A" Communication Circuit Low
P0862	Gear Shift Control Module "A" Communication Circuit High
P0863	TCM Communication Circuit
P0864	TCM Communication Circuit Range/Performance
P0865	TCM Communication Circuit Low
P0866	TCM Communication Circuit High
P0867	Transmission Fluid Pressure
P0868	Transmission Fluid Pressure Low
P0869	Transmission Fluid Pressure High
P0870	Transmission Fluid Pressure Sensor/Switch "C" Circuit
P0871	Transmission Fluid Pressure Sensor/Switch "C" Circuit

P0872	Transmission Fluid Pressure Sensor/Switch "C" Circuit Low
P0873	Transmission Fluid Pressure Sensor/Switch "C" Circuit High
P0874	Transmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent
P0875	Transmission Fluid Pressure Sensor/Switch "D" Circuit
P0876	Transmission Fluid Pressure Sensor/Switch "D" Circuit
P0877	Transmission Fluid Pressure Sensor/Switch "D" Circuit Low
P0878	Transmission Fluid Pressure Sensor/Switch "D" Circuit High
P0879	Transmission Fluid Pressure Sensor/Switch "D" Circuit Intermittent
P0880	TCM Power Input Signal
P0881	TCM Power Input Signal Range/Performance
P0882	TCM Power Input Signal Low
P0883	TCM Power Input Signal High
P0884	TCM Power Input Signal Intermittent
P0885	TCM Power Relay Control Circuit/Open
P0886	TCM Power Relay Control Circuit Low
P0887	TCM Power Relay Control Circuit High
P0888	TCM Power Relay Sense Circuit
P0889	TCM Power Relay Sense Circuit Range/Performance
P088A	Transmission Fluid Filter Deteriorated
P088B	Transmission Fluid Filter Very Deteriorated
P0890	TCM Power Relay Sense Circuit Low
P0891	TCM Power Relay Sense Circuit High
P0892	TCM Power Relay Sense Circuit Intermittent
P0893	Multiple Gears Engaged
P0894	Transmission Component Slipping
P0895	Shift Time Too Short

P0896	Shift Time Too Long
P0897	Transmission Fluid Deteriorated
P0898	Transmission Control System MIL Request Circuit Low
P0899	Transmission Control System MIL Request Circuit High

Code	Definition
P0900	Clutch Actuator Circuit/Open
P0901	Clutch Actuator Circuit Range/Performance
P0902	Clutch Actuator Circuit Low
P0903	Clutch Actuator Circuit High
P0904	Gate Select Position Circuit
P0905	Gate Select Position Circuit Range/Performance
P0906	Gate Select Position Circuit Low
P0907	Gate Select Position Circuit High
P0908	Gate Select Position Circuit Intermittent
P0909	Gate Select Control Error
P0910	Gate Select Actuator Circuit/Open
P0911	Gate Select Actuator Circuit Range/Performance
P0912	Gate Select Actuator Circuit Low
P0913	Gate Select Actuator Circuit High
P0914	Gear Shift Position Circuit
P0915	Gear Shift Position Circuit Range/Performance
P0916	Gear Shift Position Circuit Low
P0917	Gear Shift Position Circuit High
P0918	Gear Shift Position Circuit Intermittent
P0919	Gear Shift Position Control Error
P0920	Gear Shift Forward Actuator Circuit/Open
P0921	Gear Shift Forward Actuator Circuit Range/Performance
P0922	Gear Shift Forward Actuator Circuit Low
P0923	Gear Shift Forward Actuator Circuit High
P0924	Gear Shift Reverse Actuator Circuit/Open
P0925	Gear Shift Reverse Actuator Circuit Range/Performance
P0926	Gear Shift Reverse Actuator Circuit Low

P0927	Gear Shift Reverse Actuator Circuit High
P0928	Gear Shift Lock Solenoid/Actuator Control Circuit "A"/Open
P0929	Gear Shift Lock Solenoid/Actuator Control Circuit "A"
P092A	Gear Shift Lock Solenoid/Actuator Control Circuit "B"/Open
P092B	Gear Shift Lock Solenoid/Actuator Control Circuit "B"
P092C	Gear Shift Lock Solenoid/Actuator Control Circuit "B" Low
P092D	Gear Shift Lock Solenoid/Actuator Control Circuit "B" High
P0930	Gear Shift Lock Solenoid/Actuator Control Circuit "A" Low
P0931	Gear Shift Lock Solenoid/Actuator Control Circuit "A" High
P0932	Hydraulic Pressure Sensor Circuit
P0933	Hydraulic Pressure Sensor Range/Performance
P0934	Hydraulic Pressure Sensor Circuit Low
P0935	Hydraulic Pressure Sensor Circuit High
P0936	Hydraulic Pressure Sensor Circuit Intermittent
P0937	Hydraulic Oil Temperature Sensor Circuit
P0938	Hydraulic Oil Temperature Sensor Range/Performance
P0939	Hydraulic Oil Temperature Sensor Circuit Low
P0940	Hydraulic Oil Temperature Sensor Circuit High
P0941	Hydraulic Oil Temperature Sensor Circuit Intermittent
P0942	Hydraulic Pressure Unit
P0943	Hydraulic Pressure Unit Cycling Period Too Short
P0944	Hydraulic Pressure Unit Loss of Pressure
P0945	Hydraulic Pump Relay Circuit/Open
P0946	Hydraulic Pump Relay Circuit Range/Performance
P0947	Hydraulic Pump Relay Circuit Low
P0948	Hydraulic Pump Relay Circuit High
P0949	Auto Shift Manual Adaptive Learning not Complete
P0950	Auto Shift Manual Control Circuit

P0951	Auto Shift Manual Control Circuit Range/Performance
P0952	Auto Shift Manual Control Circuit Low
P0953	Auto Shift Manual Control Circuit High
P0954	Auto Shift Manual Control Circuit Intermittent
P0955	Auto Shift Manual Mode Circuit
P0956	Auto Shift Manual Mode Circuit Range/Performance
P0957	Auto Shift Manual Mode Circuit Low
P0958	Auto Shift Manual Mode Circuit High
P0959	Auto Shift Manual Mode Circuit Intermittent
P0960	Pressure Control Solenoid "A" Control Circuit/Open
P0961	Pressure Control Solenoid "A" Control Circuit Range/Performance
P0962	Pressure Control Solenoid "A" Control Circuit Low
P0963	Pressure Control Solenoid "A" Control Circuit High
P0964	Pressure Control Solenoid "B" Control Circuit/Open
P0965	Pressure Control Solenoid "B" Control Circuit Range/Performance
P0966	Pressure Control Solenoid "B" Control Circuit Low
P0967	Pressure Control Solenoid "B" Control Circuit High
P0968	Pressure Control Solenoid "C" Control Circuit/Open
P0969	Pressure Control Solenoid "C" Control Circuit Range/Performance
P0970	Pressure Control Solenoid "C" Control Circuit Low
P0971	Pressure Control Solenoid "C" Control Circuit High
P0972	Shift Solenoid "A" Control Circuit Range/Performance
P0973	Shift Solenoid "A" Control Circuit Low
P0974	Shift Solenoid "A" Control Circuit High
P0975	Shift Solenoid "B" Control Circuit Range/Performance
P0976	Shift Solenoid "B" Control Circuit Low

P0977	Shift Solenoid "B" Control Circuit High
P0978	Shift Solenoid "C" Control Circuit Range/Performance
P0979	Shift Solenoid "C" Control Circuit Low
P0980	Shift Solenoid "C" Control Circuit High
P0981	Shift Solenoid "D" Control Circuit Range/Performance
P0982	Shift Solenoid "D" Control Circuit Low
P0983	Shift Solenoid "D" Control Circuit High
P0984	Shift Solenoid "E" Control Circuit Range/Performance
P0985	Shift Solenoid "E" Control Circuit Low
P0986	Shift Solenoid "E" Control Circuit High
P0987	Transmission Fluid Pressure Sensor/Switch "E" Circuit
P0988	Transmission Fluid Pressure Sensor/Switch "E" Circuit
P0989	Transmission Fluid Pressure Sensor/Switch "E" Circuit Low
P0990	Transmission Fluid Pressure Sensor/Switch "E" Circuit High
P0991	Transmission Fluid Pressure Sensor/Switch "E" Circuit Intermittent
P0992	Transmission Fluid Pressure Sensor/Switch "F" Circuit
P0993	Transmission Fluid Pressure Sensor/Switch "F" Circuit
P0994	Transmission Fluid Pressure Sensor/Switch "F" Circuit Low
P0995	Transmission Fluid Pressure Sensor/Switch "F" Circuit High
P0996	Transmission Fluid Pressure Sensor/Switch "F" Circuit Intermittent
P0997	Shift Solenoid "F" Control Circuit Range/Performance
P0998	Shift Solenoid "F" Control Circuit Low
P0999	Shift Solenoid "F" Control Circuit High
P099A	Shift Solenoid "G" Control Circuit Range/Performance
P099B	Shift Solenoid "G" Control Circuit Low
P099C	Shift Solenoid "G" Control Circuit High

P099D	Shift Solenoid "H" Control Circuit Range/Performance
P099E	Shift Solenoid "H" Control Circuit Low
P099F	Shift Solenoid "H" Control Circuit High
P1000	Manufacturer Controlled DTC

Code	Definition
P0A00	Motor Electronics Coolant Temperature Sensor Circuit
P0A01	Range/Performance
P0A02	Motor Electronics Coolant Temperature Sensor Circuit Low
P0A03	Motor Electronics Coolant Temperature Sensor Circuit High
P0A04	Motor Electronics Coolant Temperature Sensor Circuit Intermittent
P0A05	Motor Electronics Coolant Pump "A" Control Circuit/Open
P0A06	Motor Electronics Coolant Pump "A" Control Circuit Low
P0A07	Motor Electronics Coolant Pump "A" Control Circuit High
P0A08	DC/DC Converter Status Circuit
P0A09	DC/DC Converter Status Circuit Low
P0A0A	High Voltage System Interlock Circuit
P0A0B	High Voltage System Interlock Circuit Performance
P0A0C	High Voltage System Interlock Circuit Low
P0A0D	High Voltage System Interlock Circuit High
P0A0E	High Voltage System Interlock Circuit Intermittent
P0A0F	Engine Failed to Start
P0A10	DC/DC Converter Status Circuit High
P0A11	DC/DC Converter Enable Circuit/Open
P0A12	DC/DC Converter Enable Circuit Low
P0A13	DC/DC Converter Enable Circuit High
P0A14	Engine Mount "A" Control Circuit/Open
P0A15	Engine Mount "A" Control Circuit Low
P0A16	Engine Mount "A" Control Circuit High
P0A17	Motor Torque Sensor Circuit
P0A18	Motor Torque Sensor Circuit Range/Performance

POA19	Motor Torque Sensor Circuit Low
POA1A	Generator Control Module
POA1B	Drive Motor "A" Control Module
POA1C	Drive Motor "B" Control Module
POA1D	Hybrid Powertrain Control Module
POA1E	Starter/Generator Control Module
POA1F	Battery Energy Control Module
POA20	Motor Torque Sensor Circuit High
POA21	Motor Torque Sensor Circuit Intermittent
POA22	Generator Torque Sensor Circuit
POA23	Generator Torque Sensor Circuit Range/Performance
POA24	Generator Torque Sensor Circuit Low
POA25	Generator Torque Sensor Circuit High
POA26	Generator Torque Sensor Circuit Intermittent
POA27	Hybrid Battery Power Off Circuit
POA28	Hybrid Battery Power Off Circuit Low
POA29	Hybrid Battery Power Off Circuit High
POA2A	Drive Motor "A" Temperature Sensor Circuit
POA2B	Drive Motor "A" Temperature Sensor Circuit Range/Performance
POA2C	Drive Motor "A" Temperature Sensor Circuit Low
POA2D	Drive Motor "A" Temperature Sensor Circuit High
POA2E	Drive Motor "A" Temperature Sensor Circuit Intermittent
POA2F	Drive Motor "A" Over Temperature
POA30	Drive Motor "B" Temperature Sensor Circuit
POA31	Drive Motor "B" Temperature Sensor Circuit Range/Performance
POA32	Drive Motor "B" Temperature Sensor Circuit Low

P0A33	Drive Motor "B" Temperature Sensor Circuit High
P0A34	Drive Motor "B" Temperature Sensor Circuit Intermittent
P0A35	Drive Motor "B" Over Temperature
P0A36	Generator Temperature Sensor Circuit
P0A37	Generator Temperature Sensor Circuit Range/Performance
P0A38	Generator Temperature Sensor Circuit Low
P0A39	Generator Temperature Sensor Circuit High
P0A3A	Generator Temperature Sensor Circuit Intermittent
P0A3B	Generator Over Temperature
P0A3C	Drive Motor "A" Inverter Over Temperature
P0A3D	Drive Motor "B" Inverter Over Temperature
P0A3E	Generator Inverter Over Temperature
P0A3F	Drive Motor "A" Position Sensor Circuit
P0A40	Drive Motor "A" Position Sensor Circuit Range/Performance
P0A41	Drive Motor "A" Position Sensor Circuit Low
P0A42	Drive Motor "A" Position Sensor Circuit High
P0A43	Drive Motor "A" Position Sensor Circuit Intermittent
P0A44	Drive Motor "A" Position Sensor Circuit Overspeed
P0A45	Drive Motor "B" Position Sensor Circuit
P0A46	Drive Motor "B" Position Sensor Circuit Range/Performance
P0A47	Drive Motor "B" Position Sensor Circuit Low
P0A48	Drive Motor "B" Position Sensor Circuit High
P0A49	Drive Motor "B" Position Sensor Circuit Intermittent
P0A4A	Drive Motor "B" Position Sensor Circuit Overspeed
P0A4B	Generator Position Sensor Circuit
P0A4C	Generator Position Sensor Circuit Range/Performance

P0A4D	Generator Position Sensor Circuit Low
P0A4E	Generator Position Sensor Circuit High
P0A4F	Generator Position Sensor Circuit Intermittent
P0A50	Generator Position Sensor Circuit Overspeed
P0A51	Drive Motor "A" Current Sensor Circuit
P0A52	Drive Motor "A" Current Sensor Circuit Range/Performance
P0A53	Drive Motor "A" Current Sensor Circuit Low
P0A54	Drive Motor "A" Current Sensor Circuit High
P0A55	Drive Motor "B" Current Sensor Circuit
P0A56	Drive Motor "B" Current Sensor Circuit Range/Performance
P0A57	Drive Motor "B" Current Sensor Circuit Low
P0A58	Drive Motor "B" Current Sensor Circuit High
P0A59	Generator Current Sensor Circuit
P0A5A	Generator Current Sensor Circuit Range/Performance
P0A5B	Generator Current Sensor Circuit Low
P0A5C	Generator Current Sensor Circuit High
P0A5D	Drive Motor "A" Phase U Current
P0A5E	Drive Motor "A" Phase U Current Low
P0A5F	Drive Motor "A" Phase U Current High
P0A60	Drive Motor "A" Phase V Current
P0A61	Drive Motor "A" Phase V Current Low
P0A62	Drive Motor "A" Phase V Current High
P0A63	Drive Motor "A" Phase W Current
P0A64	Drive Motor "A" Phase W Current Low
P0A65	Drive Motor "A" Phase W Current High
P0A66	Drive Motor "B" Phase U Current
P0A67	Drive Motor "B" Phase U Current Low
P0A68	Drive Motor "B" Phase U Current High

P0A69	Drive Motor "B" Phase V Current
P0A6A	Drive Motor "B" Phase V Current Low
P0A6B	Drive Motor "B" Phase V Current High
P0A6C	Drive Motor "B" Phase W Current
P0A6D	Drive Motor "B" Phase W Current Low
P0A6E	Drive Motor "B" Phase W Current High
P0A6F	Generator Phase U Current
P0A70	Generator Phase U Current Low
P0A71	Generator Phase U Current High
P0A72	Generator Phase V Current
P0A73	Generator Phase V Current Low
P0A74	Generator Phase V Current High
P0A75	Generator Phase W Current
P0A76	Generator Phase W Current Low
P0A77	Generator Phase W Current High
P0A78	Drive Motor "A" Inverter Performance
P0A79	Drive Motor "B" Inverter Performance
P0A7A	Generator Inverter Performance
P0A7B	Battery Energy Control Module Requested MIL Illumination
P0A7C	Motor Electronics Over Temperature
P0A7D	Hybrid Battery Pack State of Charge Low
P0A7E	Hybrid Battery Pack Over Temperature
P0A7F	Hybrid Battery Pack Deterioration
P0A80	Replace Hybrid Battery Pack
P0A81	Hybrid Battery Pack Cooling Fan 1 Control Circuit/Open
P0A82	Hybrid Battery Pack Cooling Fan 1 Performance/Stuck Off
P0A83	Hybrid Battery Pack Cooling Fan 1 Stuck On

P0A84	Hybrid Battery Pack Cooling Fan 1 Control Circuit Low
P0A85	Hybrid Battery Pack Cooling Fan 1 Control Circuit High
P0A86	14 Volt Power Module Current Sensor Circuit
P0A87	14 Volt Power Module Current Sensor Circuit Range/Performance
P0A88	14 Volt Power Module Current Sensor Circuit Low
P0A89	14 Volt Power Module Current Sensor Circuit High
P0A8A	14 Volt Power Module Current Sensor Circuit Intermittent
P0A8B	14 Volt Power Module System Voltage
P0A8C	14 Volt Power Module System Voltage Unstable
P0A8D	14 Volt Power Module System Voltage Low
P0A8E	14 Volt Power Module System Voltage High
P0A8F	14 Volt Power Module System Performance
P0A90	Drive Motor "A" Performance
P0A91	Drive Motor "B" Performance
P0A92	Hybrid Generator Performance
P0A93	Inverter "A" Cooling System Performance
P0A94	DC/DC Converter Performance
P0A95	High Voltage Fuse
P0A96	Hybrid Battery Pack Cooling Fan 2 Control Circuit/Open
P0A97	Hybrid Battery Pack Cooling Fan 2 Performance/Stuck Off
P0A98	Hybrid Battery Pack Cooling Fan 2 Stuck On
P0A99	Hybrid Battery Pack Cooling Fan 2 Control Circuit Low
P0A9A	Hybrid Battery Pack Cooling Fan 2 Control Circuit High
P0A9B	Hybrid Battery Temperature Sensor "A" Circuit
P0A9C	Hybrid Battery Temperature Sensor "A" Range/Performance
P0A9D	Hybrid Battery Temperature Sensor "A" Circuit Low

P0A9E	Hybrid Battery Temperature Sensor "A" Circuit High
P0A9F	Hybrid Battery Temperature Sensor "A" Circuit Intermittent/Erratic
P0AA0	Hybrid Battery Positive Contactor Circuit
P0AA1	Hybrid Battery Positive Contactor Circuit Stuck Closed
P0AA2	Hybrid Battery Positive Contactor Circuit Stuck Open
P0AA3	Hybrid Battery Negative Contactor Circuit
P0AA4	Hybrid Battery Negative Contactor Circuit Stuck Closed
P0AA5	Hybrid Battery Negative Contactor Circuit Stuck Open
P0AA6	Hybrid Battery Voltage System Isolation Fault
P0AA7	Hybrid Battery Voltage Isolation Sensor Circuit
P0AA8	Hybrid Battery Voltage Isolation Sensor Circuit Range/Performance
P0AA9	Hybrid Battery Voltage Isolation Sensor Circuit Low
P0AAA	Hybrid Battery Voltage Isolation Sensor Circuit High
P0AAB	Hybrid Battery Voltage Isolation Sensor Circuit Intermittent/Erratic
P0AAC	Hybrid Battery Pack Air Temperature Sensor "A" Circuit
P0AAD	Range/Performance
P0AAE	Hybrid Battery Pack Air Temperature Sensor "A" Circuit Low
P0AAF	Hybrid Battery Pack Air Temperature Sensor "A" Circuit High
P0AB0	Intermittent/Erratic
P0AB1	Hybrid Battery Pack Air Temperature Sensor "B" Circuit
P0AB2	Hybrid Battery Pack Air Temperature Sensor "B" Circuit
P0AB3	Hybrid Battery Pack Air Temperature Sensor "B" Circuit Low

P0AB4	Hybrid Battery Pack Air Temperature Sensor "B" Circuit High
P0AB5	Intermittent/Erratic
P0AB6	Engine Mount "B" Control Circuit/Open
P0AB7	Engine Mount "B" Control Circuit Low
P0AB8	Engine Mount "B" Control Circuit High
P0AB9	Hybrid System Performance
P0ABA	Hybrid Battery Pack Voltage Sense "A" Circuit
P0ABB	Hybrid Battery Pack Voltage Sense "A" Circuit Range/Performance
P0ABC	Hybrid Battery Pack Voltage Sense "A" Circuit Low
P0ABD	Hybrid Battery Pack Voltage Sense "A" Circuit High
P0ABE	Hybrid Battery Pack Voltage Sense "A" Circuit Intermittent/Erratic
P0ABF	Hybrid Battery Pack Current Sensor "A" Circuit
P0AC0	Hybrid Battery Pack Current Sensor "A" Circuit Range/Performance
P0AC1	Hybrid Battery Pack Current Sensor "A" Circuit Low
P0AC2	Hybrid Battery Pack Current Sensor "A" Circuit High
P0AC3	Hybrid Battery Pack Current Sensor "A" Circuit Intermittent/Erratic
P0AC4	Hybrid Powertrain Control Module Requested MIL Illumination
P0AC5	Hybrid Battery Temperature Sensor "B" Circuit
P0AC6	Hybrid Battery Temperature Sensor "B" Range/Performance
P0AC7	Hybrid Battery Temperature Sensor "B" Circuit Low
P0AC8	Hybrid Battery Temperature Sensor "B" Circuit High

P0AC9	Hybrid Battery Temperature Sensor "B" Circuit Intermittent/Erratic
P0ACA	Hybrid Battery Temperature Sensor "C" Circuit
P0ACB	Hybrid Battery Temperature Sensor "C" Range/Performance
P0ACC	Hybrid Battery Temperature Sensor "C" Circuit Low
P0ACD	Hybrid Battery Temperature Sensor "C" Circuit High
P0ACE	Hybrid Battery Temperature Sensor "C" Circuit Intermittent/Erratic
P0ACF	Hybrid Battery Pack Cooling Fan 3 Control Circuit/Open
P0AD0	Hybrid Battery Pack Cooling Fan 3 Performance/Stuck Off
P0AD1	Hybrid Battery Pack Cooling Fan 3 Stuck On
P0AD2	Hybrid Battery Pack Cooling Fan 3 Control Circuit Low
P0AD3	Hybrid Battery Pack Cooling Fan 3 Control Circuit High
P0AD4	Hybrid Battery Pack Air Flow System Insufficient Air Flow
P0AD5	Hybrid Battery Pack Air Flow Valve "A" Control Circuit/Open
P0AD6	Range/Performance
P0AD7	Hybrid Battery Pack Air Flow Valve "A" Control Circuit Low
P0AD8	Hybrid Battery Pack Air Flow Valve "A" Control Circuit High
P0AD9	Hybrid Battery Positive Contactor Control Circuit/Open
P0ADA	Range/Performance
P0ADB	Hybrid Battery Positive Contactor Control Circuit Low
P0ADC	Hybrid Battery Positive Contactor Control Circuit High
P0ADD	Hybrid Battery Negative Contactor Control Circuit/Open
P0ADE	Range/Performance
P0ADF	Hybrid Battery Negative Contactor Control Circuit Low
P0AE0	Hybrid Battery Negative Contactor Control Circuit High
P0AE1	Hybrid Battery Precharge Contactor Circuit

POAE2	Hybrid Battery Precharge Contactor Circuit Stuck Closed
POAE3	Hybrid Battery Precharge Contactor Circuit Stuck Open
POAE4	Hybrid Battery Precharge Contactor Control Circuit
POAE5	Range/Performance
POAE6	Hybrid Battery Precharge Contactor Control Circuit Low
POAE7	Hybrid Battery Precharge Contactor Control Circuit High
POAE8	Hybrid Battery Temperature Sensor "D" Circuit
POAE9	Hybrid Battery Temperature Sensor "D" Range/Performance
POAEA	Hybrid Battery Temperature Sensor "D" Circuit Low
POAEB	Hybrid Battery Temperature Sensor "D" Circuit High
POAEC	Hybrid Battery Temperature Sensor "D" Circuit Intermittent/Erratic
POAED	Drive Motor Inverter Temperature Sensor "A" Circuit
POAEE	Range/Performance
POAEF	Drive Motor Inverter Temperature Sensor "A" Circuit Low
POAF0	Drive Motor Inverter Temperature Sensor "A" Circuit High
POAF1	Intermittent/Erratic
POAF2	Drive Motor Inverter Temperature Sensor "B" Circuit
POAF3	Range/Performance
POAF4	Drive Motor Inverter Temperature Sensor "B" Circuit Low
POAF5	Drive Motor Inverter Temperature Sensor "B" Circuit High
POAF6	Intermittent/Erratic
POAF7	14 Volt Power Module Internal Temperature Too High
POAF8	Hybrid Battery System Voltage
POAF9	Hybrid Battery System Voltage Unstable
POAFA	Hybrid Battery System Voltage Low
POAFB	Hybrid Battery System Voltage High

POAFC	Hybrid Battery Pack Sensor Module
POAFD	Hybrid Battery Pack Temperature Too Low
POAFE	Conversion
POAFF	System Voltage Too Low for Voltage Step Down Conversion

Code	Definition
P0B00	AUXILIARY Transmission Fluid Pump Motor Phase U Current
P0B01	AUXILIARY Transmission Fluid Pump Motor Phase U Current Low
P0B02	AUXILIARY Transmission Fluid Pump Motor Phase U Current High
P0B03	AUXILIARY Transmission Fluid Pump Motor Phase V Current
P0B04	AUXILIARY Transmission Fluid Pump Motor Phase V Current Low
P0B05	AUXILIARY Transmission Fluid Pump Motor Phase V Current High
P0B06	AUXILIARY Transmission Fluid Pump Motor Phase W Current
P0B07	AUXILIARY Transmission Fluid Pump Motor Phase W Current Low
P0B08	AUXILIARY Transmission Fluid Pump Motor Phase W Current High
P0B09	AUXILIARY Transmission Fluid Pump Motor Supply Voltage
P0B0A	AUXILIARY Transmission Fluid Pump Motor Supply Voltage Circuit
P0B0B	AUXILIARY Transmission Fluid Pump Motor Supply Voltage Circuit
P0B0C	AUXILIARY Transmission Fluid Pump Hydraulic Leakage
P0B0D	AUXILIARY Transmission Fluid Pump Motor Control Module
P0B0E	Hybrid Battery Pack Current Sensor "B" Circuit
P0B0F	Hybrid Battery Pack Current Sensor "B" Circuit Range/Performance

POB10	Hybrid Battery Pack Current Sensor "B" Circuit Low
POB11	Hybrid Battery Pack Current Sensor "B" Circuit High
POB12	Hybrid Battery Pack Current Sensor "B" Circuit Intermittent/Erratic
POB13	Hybrid Battery Pack Current Sensor "A"/"B" Correlation
POB14	Hybrid Battery Pack Voltage Sense "B" Circuit
POB15	Hybrid Battery Pack Voltage Sense "B" Circuit Range/Performance
POB16	Hybrid Battery Pack Voltage Sense "B" Circuit Low
POB17	Hybrid Battery Pack Voltage Sense "B" Circuit High
POB18	Hybrid Battery Pack Voltage Sense "B" Circuit Intermittent/Erratic
POB19	Hybrid Battery Pack Voltage Sense "C" Circuit
POB1A	Hybrid Battery Pack Voltage Sense "C" Circuit Range/Performance
POB1B	Hybrid Battery Pack Voltage Sense "C" Circuit Low
POB1C	Hybrid Battery Pack Voltage Sense "C" Circuit High
POB1D	Hybrid Battery Pack Voltage Sense "C" Circuit Intermittent/Erratic
POB1E	Hybrid Battery Pack Voltage Sense "D" Circuit
POB1F	Hybrid Battery Pack Voltage Sense "D" Circuit Range/Performance
POB20	Hybrid Battery Pack Voltage Sense "D" Circuit Low
POB21	Hybrid Battery Pack Voltage Sense "D" Circuit High
POB22	Hybrid Battery Pack Voltage Sense "D" Circuit Intermittent/Erratic
POB23	Hybrid Battery "A" Voltage
POB24	Hybrid Battery "A" Voltage Unstable
POB25	Hybrid Battery "A" Voltage Low

P0B26	Hybrid Battery "A" Voltage High
P0B27	Hybrid Battery "B" Voltage
P0B28	Hybrid Battery "B" Voltage Unstable
P0B29	Hybrid Battery "B" Voltage Low
P0B2A	Hybrid Battery "B" Voltage High
P0B2B	Hybrid Battery "C" Voltage
P0B2C	Hybrid Battery "C" Voltage Unstable
P0B2D	Hybrid Battery "C" Voltage Low
P0B2E	Hybrid Battery "C" Voltage High
P0B2F	Hybrid Battery "D" Voltage
P0B30	Hybrid Battery "D" Voltage Unstable
P0B31	Hybrid Battery "D" Voltage Low
P0B32	Hybrid Battery "D" Voltage High
P0B33	High Voltage Service Disconnect Circuit
P0B34	High Voltage Service Disconnect Circuit Performance
P0B35	High Voltage Service Disconnect Circuit Low
P0B36	High Voltage Service Disconnect Circuit High
P0B37	High Voltage Service Disconnect Open
P0B38	Motor Electronics Coolant Pump "B" Control Circuit/Open
P0B39	Motor Electronics Coolant Pump "B" Control Circuit Low
P0B3A	Motor Electronics Coolant Pump "B" Control Circuit High
P0B3B	Hybrid Battery Voltage Sense "A" Circuit
P0B3C	Hybrid Battery Voltage Sense "A" Circuit Range/Performance
P0B3D	Hybrid Battery Voltage Sense "A" Circuit Low
P0B3E	Hybrid Battery Voltage Sense "A" Circuit High
P0B3F	Hybrid Battery Voltage Sense "A" Circuit Intermittent/Erratic

P0B40	Hybrid Battery Voltage Sense "B" Circuit
P0B41	Hybrid Battery Voltage Sense "B" Circuit Range/Performance
P0B42	Hybrid Battery Voltage Sense "B" Circuit Low
P0B43	Hybrid Battery Voltage Sense "B" Circuit High
P0B44	Hybrid Battery Voltage Sense "B" Circuit Intermittent/Erratic
P0B45	Hybrid Battery Voltage Sense "C" Circuit
P0B46	Hybrid Battery Voltage Sense "C" Circuit Range/Performance
P0B47	Hybrid Battery Voltage Sense "C" Circuit Low
P0B48	Hybrid Battery Voltage Sense "C" Circuit High
P0B49	Hybrid Battery Voltage Sense "C" Circuit Intermittent/Erratic
P0B4A	Hybrid Battery Voltage Sense "D" Circuit
P0B4B	Hybrid Battery Voltage Sense "D" Circuit Range/Performance
P0B4C	Hybrid Battery Voltage Sense "D" Circuit Low
P0B4D	Hybrid Battery Voltage Sense "D" Circuit High
P0B4E	Hybrid Battery Voltage Sense "D" Circuit Intermittent/Erratic
P0B4F	Hybrid Battery Voltage Sense "E" Circuit
P0B50	Hybrid Battery Voltage Sense "E" Circuit Range/Performance
P0B51	Hybrid Battery Voltage Sense "E" Circuit Low
P0B52	Hybrid Battery Voltage Sense "E" Circuit High
P0B53	Hybrid Battery Voltage Sense "E" Circuit Intermittent/Erratic
P0B54	Hybrid Battery Voltage Sense "F" Circuit

P0B55	Hybrid Battery Voltage Sense "F" Circuit Range/Performance
P0B56	Hybrid Battery Voltage Sense "F" Circuit Low
P0B57	Hybrid Battery Voltage Sense "F" Circuit High
P0B58	Hybrid Battery Voltage Sense "F" Circuit Intermittent/Erratic
P0B59	Hybrid Battery Voltage Sense "G" Circuit
P0B5A	Hybrid Battery Voltage Sense "G" Circuit Range/Performance
P0B5B	Hybrid Battery Voltage Sense "G" Circuit Low
P0B5C	Hybrid Battery Voltage Sense "G" Circuit High
P0B5D	Hybrid Battery Voltage Sense "G" Circuit Intermittent/Erratic
P0B5E	Hybrid Battery Voltage Sense "H" Circuit
P0B5F	Hybrid Battery Voltage Sense "H" Circuit Range/Performance
P0B60	Hybrid Battery Voltage Sense "H" Circuit Low
P0B61	Hybrid Battery Voltage Sense "H" Circuit High
P0B62	Hybrid Battery Voltage Sense "H" Circuit Intermittent/Erratic
P0B63	Hybrid Battery Voltage Sense "I" Circuit
P0B64	Hybrid Battery Voltage Sense "I" Circuit Range/Performance
P0B65	Hybrid Battery Voltage Sense "I" Circuit Low
P0B66	Hybrid Battery Voltage Sense "I" Circuit High
P0B67	Hybrid Battery Voltage Sense "I" Circuit Intermittent/Erratic
P0B68	Hybrid Battery Voltage Sense "J" Circuit

P0B69	Hybrid Battery Voltage Sense "J" Circuit Range/Performance
P0B6A	Hybrid Battery Voltage Sense "J" Circuit Low
P0B6B	Hybrid Battery Voltage Sense "J" Circuit High
P0B6C	Hybrid Battery Voltage Sense "J" Circuit Intermittent/Erratic
P0B6D	Hybrid Battery Voltage Sense "K" Circuit
P0B6E	Hybrid Battery Voltage Sense "K" Circuit Range/Performance
P0B6F	Hybrid Battery Voltage Sense "K" Circuit Low
P0B70	Hybrid Battery Voltage Sense "K" Circuit High
P0B71	Hybrid Battery Voltage Sense "K" Circuit Intermittent/Erratic
P0B72	Hybrid Battery Voltage Sense "L" Circuit
P0B73	Hybrid Battery Voltage Sense "L" Circuit Range/Performance
P0B74	Hybrid Battery Voltage Sense "L" Circuit Low
P0B75	Hybrid Battery Voltage Sense "L" Circuit High
P0B76	Hybrid Battery Voltage Sense "L" Circuit Intermittent/Erratic
P0B77	Hybrid Battery Voltage Sense "M" Circuit
P0B78	Hybrid Battery Voltage Sense "M" Circuit Range/Performance
P0B79	Hybrid Battery Voltage Sense "M" Circuit Low
P0B7A	Hybrid Battery Voltage Sense "M" Circuit High
P0B7B	Hybrid Battery Voltage Sense "M" Circuit Intermittent/Erratic
P0B7C	Hybrid Battery Voltage Sense "N" Circuit

P0B7D	Hybrid Battery Voltage Sense "N" Circuit Range/Performance
P0B7E	Hybrid Battery Voltage Sense "N" Circuit Low
P0B7F	Hybrid Battery Voltage Sense "N" Circuit High
P0B80	Hybrid Battery Voltage Sense "N" Circuit Intermittent/Erratic
P0B81	Hybrid Battery Voltage Sense "O" Circuit
P0B82	Hybrid Battery Voltage Sense "O" Circuit Range/Performance
P0B83	Hybrid Battery Voltage Sense "O" Circuit Low
P0B84	Hybrid Battery Voltage Sense "O" Circuit High
P0B85	Hybrid Battery Voltage Sense "O" Circuit Intermittent/Erratic
P0B86	Hybrid Battery Voltage Sense "P" Circuit
P0B87	Hybrid Battery Voltage Sense "P" Circuit Range/Performance
P0B88	Hybrid Battery Voltage Sense "P" Circuit Low
P0B89	Hybrid Battery Voltage Sense "P" Circuit High
P0B8A	Hybrid Battery Voltage Sense "P" Circuit Intermittent/Erratic
P0B8B	Hybrid Battery Voltage Sense "Q" Circuit
P0B8C	Hybrid Battery Voltage Sense "Q" Circuit Range/Performance
P0B8D	Hybrid Battery Voltage Sense "Q" Circuit Low
P0B8E	Hybrid Battery Voltage Sense "Q" Circuit High
P0B8F	Hybrid Battery Voltage Sense "Q" Circuit Intermittent/Erratic
P0B90	Hybrid Battery Voltage Sense "R" Circuit

P0B91	Hybrid Battery Voltage Sense "R" Circuit Range/Performance
P0B92	Hybrid Battery Voltage Sense "R" Circuit Low
P0B93	Hybrid Battery Voltage Sense "R" Circuit High
P0B94	Hybrid Battery Voltage Sense "R" Circuit Intermittent/Erratic
P0B95	Hybrid Battery Voltage Sense "S" Circuit
P0B96	Hybrid Battery Voltage Sense "S" Circuit Range/Performance
P0B97	Hybrid Battery Voltage Sense "S" Circuit Low
P0B98	Hybrid Battery Voltage Sense "S" Circuit High
P0B99	Hybrid Battery Voltage Sense "S" Circuit Intermittent/Erratic
P0B9A	Hybrid Battery Voltage Sense "T" Circuit
P0B9B	Hybrid Battery Voltage Sense "T" Circuit Range/Performance
P0B9C	Hybrid Battery Voltage Sense "T" Circuit Low
P0B9D	Hybrid Battery Voltage Sense "T" Circuit High
P0B9E	Hybrid Battery Voltage Sense "T" Circuit Intermittent/Erratic
P0B9F	Hybrid Battery Voltage Sense "U" Circuit
P0BA0	Hybrid Battery Voltage Sense "U" Circuit Range/Performance
P0BA1	Hybrid Battery Voltage Sense "U" Circuit Low
P0BA2	Hybrid Battery Voltage Sense "U" Circuit High
P0BA3	Hybrid Battery Voltage Sense "U" Circuit Intermittent/Erratic
P0BA4	Hybrid Battery Voltage Sense "V" Circuit

P0BA5	Hybrid Battery Voltage Sense "V" Circuit Range/Performance
P0BA6	Hybrid Battery Voltage Sense "V" Circuit Low
P0BA7	Hybrid Battery Voltage Sense "V" Circuit High
P0BA8	Hybrid Battery Voltage Sense "V" Circuit Intermittent/Erratic
P0BA9	Hybrid Battery Voltage Sense "W" Circuit
POBAA	Hybrid Battery Voltage Sense "W" Circuit Range/Performance
POBAB	Hybrid Battery Voltage Sense "W" Circuit Low
POBAC	Hybrid Battery Voltage Sense "W" Circuit High
POBAD	Hybrid Battery Voltage Sense "W" Circuit Intermittent/Erratic
POBAE	Hybrid Battery Voltage Sense "X" Circuit
POBAF	Hybrid Battery Voltage Sense "X" Circuit Range/Performance
POBBO	Hybrid Battery Voltage Sense "X" Circuit Low
POBB1	Hybrid Battery Voltage Sense "X" Circuit High
POBB2	Hybrid Battery Voltage Sense "X" Circuit Intermittent/Erratic
POBB3	Hybrid Battery Voltage Sense "Y" Circuit
POBB4	Hybrid Battery Voltage Sense "Y" Circuit Range/Performance
POBB5	Hybrid Battery Voltage Sense "Y" Circuit Low
POBB6	Hybrid Battery Voltage Sense "Y" Circuit High
POBB7	Hybrid Battery Voltage Sense "Y" Circuit Intermittent/Erratic
POBB8	Hybrid Battery Voltage Sense "Z" Circuit

P0BB9	Hybrid Battery Voltage Sense "Z" Circuit Range/Performance
P0BBA	Hybrid Battery Voltage Sense "Z" Circuit Low
P0BBB	Hybrid Battery Voltage Sense "Z" Circuit High
P0BBC	Hybrid Battery Voltage Sense "Z" Circuit Intermittent/Erratic
P0BBD	Hybrid Battery Pack Voltage Variation Exceeded Limit
P0BBE	Hybrid Battery Pack Voltage Variation
P0BBF	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit/Open
P0BC0	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit Low
P0BC1	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit High
P0BC2	Hybrid Battery Temperature Sensor "E" Circuit
P0BC3	Hybrid Battery Temperature Sensor "E" Range/Performance
P0BC4	Hybrid Battery Temperature Sensor "E" Circuit Low
P0BC5	Hybrid Battery Temperature Sensor "E" Circuit High
P0BC6	Hybrid Battery Temperature Sensor "E" Circuit Intermittent/Erratic
P0BC7	Hybrid Battery Pack Cooling Fan Sense Circuit/Open
P0BC8	Hybrid Battery Pack Cooling Fan Sense Range/Performance
P0BC9	Hybrid Battery Pack Cooling Fan Sense Circuit Low
P0BCA	Hybrid Battery Pack Cooling Fan Sense Circuit High
P0BCB	Hybrid Battery Pack Cooling Fan Sense Circuit Intermittent/Erratic
P0BCC	Generator Inverter Temperature Sensor Circuit

P0BCD	Generator Inverter Temperature Sensor Circuit Range/Performance
P0BCE	Generator Inverter Temperature Sensor Circuit Low
P0BCF	Generator Inverter Temperature Sensor Circuit High
P0BD0	Generator Inverter Temperature Sensor Circuit Intermittent/Erratic
P0BD1	Drive Motor Inverter Temperature Sensor "C" Circuit
P0BD2	Drive Motor Inverter Temperature Sensor "C" Circuit
P0BD3	Drive Motor Inverter Temperature Sensor "C" Circuit Low
P0BD4	Drive Motor Inverter Temperature Sensor "C" Circuit High
P0BD5	Drive Motor Inverter Temperature Sensor "C" Circuit
P0BD6	Drive Motor Inverter Temperature Sensor "D" Circuit
P0BD7	Drive Motor Inverter Temperature Sensor "D" Circuit
P0BD8	Drive Motor Inverter Temperature Sensor "D" Circuit Low
P0BD9	Drive Motor Inverter Temperature Sensor "D" Circuit High
P0BDA	Drive Motor Inverter Temperature Sensor "D" Circuit
P0BDB	Drive Motor Inverter Temperature Sensor "E" Circuit
P0BDC	Drive Motor Inverter Temperature Sensor "E" Circuit
P0BDD	Drive Motor Inverter Temperature Sensor "E" Circuit Low
P0BDE	Drive Motor Inverter Temperature Sensor "E" Circuit High
P0BDF	Drive Motor Inverter Temperature Sensor "E" Circuit
P0BE0	Drive Motor Inverter Temperature Sensor "F" Circuit
P0BE1	Drive Motor Inverter Temperature Sensor "F" Circuit
P0BE2	Drive Motor Inverter Temperature Sensor "F" Circuit Low
P0BE3	Drive Motor Inverter Temperature Sensor "F" Circuit High
P0BE4	Drive Motor Inverter Temperature Sensor "F" Circuit
P0BE5	Drive Motor "A" Phase U Current Sensor Circuit
P0BE6	Drive Motor "A" Phase U Current Sensor Circuit

POBE7	Drive Motor "A" Phase U Current Sensor Circuit Low
POBE8	Drive Motor "A" Phase U Current Sensor Circuit High
POBE9	Drive Motor "A" Phase V Current Sensor Circuit
POBEA	Drive Motor "A" Phase V Current Sensor Circuit
POBEB	Drive Motor "A" Phase V Current Sensor Circuit Low
POBEC	Drive Motor "A" Phase V Current Sensor Circuit High
POBED	Drive Motor "A" Phase W Current Sensor Circuit
POBEE	Drive Motor "A" Phase W Current Sensor Circuit
POBEF	Drive Motor "A" Phase W Current Sensor Circuit Low
POBF0	Drive Motor "A" Phase W Current Sensor Circuit High
POBF1	Drive Motor "B" Phase U Current Sensor Circuit
POBF2	Drive Motor "B" Phase U Current Sensor Circuit
POBF3	Drive Motor "B" Phase U Current Sensor Circuit Low
POBF4	Drive Motor "B" Phase U Current Sensor Circuit High
POBF5	Drive Motor "B" Phase V Current Sensor Circuit
POBF6	Drive Motor "B" Phase V Current Sensor Circuit
POBF7	Drive Motor "B" Phase V Current Sensor Circuit Low
POBF8	Drive Motor "B" Phase V Current Sensor Circuit High
POBF9	Drive Motor "B" Phase W Current Sensor Circuit
POBFA	Drive Motor "B" Phase W Current Sensor Circuit
POBFB	Drive Motor "B" Phase W Current Sensor Circuit Low
POBFC	Drive Motor "B" Phase W Current Sensor Circuit High
POBFD	Drive Motor "A" Phase U-V-W Current Sensor Correlation
POBFE	Drive Motor "B" Phase U-V-W Current Sensor Correlation
POBFF	Drive Motor "A" Current

Code	Definition
POC00	Drive Motor "A" Current Low
POC01	Drive Motor "A" Current High
POC02	Drive Motor "B" Current
POC03	Drive Motor "B" Current Low
POC04	Drive Motor "B" Current High
POC05	Drive Motor "A" Phase U-V-W Circuit/Open
POC06	Drive Motor "A" Phase U-V-W Circuit Low
POC07	Drive Motor "A" Phase U-V-W Circuit High
POC08	Drive Motor "B" Phase U-V-W Circuit/Open
POC09	Drive Motor "B" Phase U-V-W Circuit Low
POC0A	Drive Motor "B" Phase U-V-W Circuit High
POC0B	Drive Motor "A" Inverter Power Supply Circuit/Open
POC0C	Drive Motor "A" Inverter Power Supply Circuit Low
POC0D	Drive Motor "A" Inverter Power Supply Circuit High
POC0E	Drive Motor "B" Inverter Power Supply Circuit/Open
POC0F	Drive Motor "B" Inverter Power Supply Circuit Low
POC10	Drive Motor "B" Inverter Power Supply Circuit High
POC11	Drive Motor "A" Inverter Phase U Over Temperature
POC12	Drive Motor "A" Inverter Phase V Over Temperature
POC13	Drive Motor "A" Inverter Phase W Over Temperature
POC14	Drive Motor "B" Inverter Phase U Over Temperature
POC15	Drive Motor "B" Inverter Phase V Over Temperature
POC16	Drive Motor "B" Inverter Phase W Over Temperature
POC17	Drive Motor "A" Position Sensor not Learned
POC18	Drive Motor "B" Position Sensor not Learned
POC19	Drive Motor "A" Torque Delivered Performance
POC1A	Drive Motor "B" Torque Delivered Performance

P0C1B	AUXILIARY Transmission Fluid Pump Control Module Internal
P0C1C	AUXILIARY Transmission Fluid Pump Control Module Internal
P0C1D	AUXILIARY Transmission Fluid Pump Control Module Internal
P0C1E	AUXILIARY Transmission Fluid Pump Control Module Internal
P0C1F	AUXILIARY Transmission Fluid Pump Control Module Internal
P0C20	AUXILIARY Transmission Fluid Pump Phase U-V-W Circuit/Open
P0C21	AUXILIARY Transmission Fluid Pump Phase U-V-W Circuit Low
P0C22	AUXILIARY Transmission Fluid Pump Phase U-V-W Circuit High
P0C23	AUXILIARY Transmission Fluid Pump Control Module Circuit/Open
P0C24	AUXILIARY Transmission Fluid Pump Control Module Circuit Low
P0C25	AUXILIARY Transmission Fluid Pump Control Module Circuit High
P0C26	AUXILIARY Transmission Fluid Pump Motor Current
P0C27	AUXILIARY Transmission Fluid Pump Motor Current Low
P0C28	AUXILIARY Transmission Fluid Pump Motor Current High
P0C29	AUXILIARY Transmission Fluid Pump Driver Circuit Performance
P0C2A	AUXILIARY Transmission Fluid Pump Motor Stalled
P0C2B	AUXILIARY Transmission Fluid Pump Control Module Feedback

P0C2C	AUXILIARY Transmission Fluid Pump Control Module Feedback
P0C2D	AUXILIARY Transmission Fluid Pump Control Module Feedback
P0C2E	AUXILIARY Transmission Fluid Pump Control Module Feedback
P0C2F	Internal Control Module Drive Motor/Generator - Engine Speed
P0C30	Hybrid Battery Pack State of Charge High
P0C31	Inverter "B" Cooling System Performance
P0C32	Hybrid Battery Cooling System Performance
P0C33	Hybrid Battery Temperature Sensor "F" Circuit
P0C34	Hybrid Battery Temperature Sensor "F" Circuit Range/Performance
P0C35	Hybrid Battery Temperature Sensor "F" Circuit Low
P0C36	Hybrid Battery Temperature Sensor "F" Circuit High
P0C37	Hybrid Battery Temperature Sensor "F" Circuit Intermittent/Erratic
P0C38	DC/DC Converter Temperature Sensor "A" Circuit
P0C39	DC/DC Converter Temperature Sensor "A" Range/Performance
P0C3A	DC/DC Converter Temperature Sensor "A" Low
P0C3B	DC/DC Converter Temperature Sensor "A" High
P0C3C	DC/DC Converter Temperature Sensor "A" Intermittent/Erratic
P0C3D	DC/DC Converter Temperature Sensor "B" Circuit
P0C3E	DC/DC Converter Temperature Sensor "B" Range/Performance
P0C3A	DC/DC Converter Temperature Sensor "B" Low

P0C40	DC/DC Converter Temperature Sensor "B" High
P0C41	DC/DC Converter Temperature Sensor "B" Intermittent/Erratic
P0C42	Hybrid Battery Pack Coolant Temperature Sensor Circuit
P0C43	Hybrid Battery Pack Coolant Temperature Sensor Circuit
P0C44	Hybrid Battery Pack Coolant Temperature Sensor Circuit Low
P0C45	Hybrid Battery Pack Coolant Temperature Sensor Circuit High
P0C46	Hybrid Battery Pack Coolant Temperature Sensor Circuit
P0C47	Hybrid Battery Pack Coolant Pump Control Circuit/Open
P0C48	Hybrid Battery Pack Coolant Pump Control Circuit Low
P0C49	Hybrid Battery Pack Coolant Pump Control Circuit High
P0C4A	Hybrid Battery Pack Coolant Pump Control Performance
P0C4B	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit/Open
P0C4C	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit Low
P0C4D	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit High
P0C4E	Drive Motor "A" Position Exceeded Learning Limit
P0C4F	Drive Motor "B" Position Exceeded Learning Limit
P0C50	Drive Motor "A" Position Sensor Circuit "A"
P0C51	Drive Motor "A" Position Sensor Circuit "A" Range/Performance
P0C52	Drive Motor "A" Position Sensor Circuit "A" Low
P0C53	Drive Motor "A" Position Sensor Circuit "A" High
P0C54	Drive Motor "A" Position Sensor Circuit "A" Intermittent/Erratic

P0C55	Drive Motor "B" Position Sensor Circuit "A"
P0C56	Drive Motor "B" Position Sensor Circuit "A" Range/Performance
P0C57	Drive Motor "B" Position Sensor Circuit "A" Low
P0C58	Drive Motor "B" Position Sensor Circuit "A" High
P0C59	Drive Motor "B" Position Sensor Circuit "A" Intermittent/Erratic
P0C5A	Drive Motor "A" Position Sensor Circuit "B"
P0C5B	Drive Motor "A" Position Sensor Circuit "B" Range/Performance
P0C5C	Drive Motor "A" Position Sensor Circuit "B" Low
P0C5D	Drive Motor "A" Position Sensor Circuit "B" High
P0C5E	Drive Motor "A" Position Sensor Circuit "B" Intermittent/Erratic
P0C5F	Drive Motor "B" Position Sensor Circuit "B"
P0C60	Drive Motor "B" Position Sensor Circuit "B" Range/Performance
P0C61	Drive Motor "B" Position Sensor Circuit "B" Low
P0C62	Drive Motor "B" Position Sensor Circuit "B" High
P0C63	Drive Motor "B" Position Sensor Circuit "B" Intermittent/Erratic
P0C64	Generator Position Sensor Circuit "A"
P0C65	Generator Position Sensor Circuit "A" Range/Performance
P0C66	Generator Position Sensor Circuit "A" Low
P0C67	Generator Position Sensor Circuit "A" High
P0C68	Generator Position Sensor Circuit "A" Intermittent/Erratic
P0C69	Generator Position Sensor Circuit "B"
P0C6A	Generator Position Sensor Circuit "B" Range/Performance
P0C6B	Generator Position Sensor Circuit "B" Low

P0C6C	Generator Position Sensor Circuit "B" High
P0C6D	Generator Position Sensor Circuit "B" Intermittent/Erratic
P0C6E	Hybrid Battery Temperature Sensor "A"/"B" Correlation
P0C6F	Hybrid Battery Temperature Sensor "B"/"C" Correlation
P0C70	Hybrid Battery Temperature Sensor "C"/"D" Correlation
P0C71	Hybrid Battery Temperature Sensor "D"/"E" Correlation
P0C72	Hybrid Battery Temperature Sensor "E"/"F" Correlation
P0C73	Motor Electronics Coolant Pump "A" Control Performance
P0C74	Motor Electronics Coolant Pump "B" Control Performance
P0C75	Hybrid Battery System Discharge Time Too Short
P0C76	Hybrid Battery System Discharge Time Too Long
P0C77	Hybrid Battery System Precharge Time Too Short
P0C78	Hybrid Battery System Precharge Time Too Long
P0C79	Drive Motor "A" Inverter Voltage Too High
P0C7A	Drive Motor "B" Inverter Voltage Too High
P0C7B	Generator Inverter Voltage Too High
P0C7C	Hybrid Battery Temperature Sensor "G" Circuit
P0C7D	Hybrid Battery Temperature Sensor "G" Range/Performance
P0C7E	Hybrid Battery Temperature Sensor "G" Circuit Low
P0C7F	Hybrid Battery Temperature Sensor "G" Circuit High
P0C80	Hybrid Battery Temperature Sensor "G" Circuit Intermittent/Erratic
P0C81	Hybrid Battery Temperature Sensor "H" Circuit
P0C82	Hybrid Battery Temperature Sensor "H" Range/Performance
P0C83	Hybrid Battery Temperature Sensor "H" Circuit Low
P0C84	Hybrid Battery Temperature Sensor "H" Circuit High

P0C85	Hybrid Battery Temperature Sensor "H" Circuit Intermittent/Erratic
P0C86	Hybrid Battery Temperature Sensor "F"/"G" Correlation
P0C87	Hybrid Battery Temperature Sensor "G"/"H" Correlation

# P2XXX



Code	Definition
P2000	NOX Adsorber Efficiency Below Threshold
P2001	NOX Adsorber Efficiency Below Threshold
P2002	Diesel Particulate Filter Efficiency Below Threshold
P2003	Diesel Particulate Filter Efficiency Below Threshold
P2004	Intake Manifold Runner Control Stuck Open
P2005	Intake Manifold Runner Control Stuck Open
P2006	Intake Manifold Runner Control Stuck Closed
P2007	Intake Manifold Runner Control Stuck Closed
P2008	Intake Manifold Runner Control Circuit/Open
P2009	Intake Manifold Runner Control Circuit Low
P200A	Intake Manifold Runner Performance
P200B	Intake Manifold Runner Performance
P200C	Diesel Particulate Filter Over Temperature
P200D	Diesel Particulate Filter Over Temperature
P200E	Catalyst System Over Temperature
P200F	Catalyst System Over Temperature
P2010	Intake Manifold Runner Control Circuit High
P2011	Intake Manifold Runner Control Circuit/Open
P2012	Intake Manifold Runner Control Circuit Low
P2013	Intake Manifold Runner Control Circuit High
P2014	Intake Manifold Runner Position Sensor/Switch Circuit
P2015	Intake Manifold Runner Position Sensor/Switch Circuit
P2016	Intake Manifold Runner Position Sensor/Switch Circuit Low
P2017	Intake Manifold Runner Position Sensor/Switch Circuit High
P2018	Intake Manifold Runner Position Sensor/Switch Circuit Intermittent
P2019	Intake Manifold Runner Position Sensor/Switch Circuit
P201A	Reductant Injection Valve Circuit Range/Performance

P2020	Intake Manifold Runner Position Sensor/Switch Circuit
P2021	Intake Manifold Runner Position Sensor/Switch Circuit Low
P2022	Intake Manifold Runner Position Sensor/Switch Circuit High
P2023	Intake Manifold Runner Position Sensor/Switch Circuit Intermittent
P2024	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor
P2025	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor
P2026	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor
P2027	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor
P2028	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor
P2029	Fuel Fired Heater Disabled
P202A	Reductant Tank Heater Control Circuit/Open
P202B	Reductant Tank Heater Control Circuit Low
P202C	Reductant Tank Heater Control Circuit High
P202D	Reductant Leakage
P202E	Reductant Injection Valve Circuit Range/Performance
P202F	Reductant/Regeneration Supply Control Circuit Range/Performance
P2030	Fuel Fired Heater Performance
P2031	Exhaust Gas Temperature Sensor Circuit
P2032	Exhaust Gas Temperature Sensor Circuit Low
P2033	Exhaust Gas Temperature Sensor Circuit High
P2034	Exhaust Gas Temperature Sensor Circuit
P2035	Exhaust Gas Temperature Sensor Circuit Low
P2036	Exhaust Gas Temperature Sensor Circuit High

P2037	Reductant Injection Air Pressure Sensor "A" Circuit
P2038	Reductant Injection Air Pressure Sensor "A" Circuit
P2039	Reductant Injection Air Pressure Sensor "A" Circuit Low
P203A	Reductant Level Sensor Circuit
P203B	Reductant Level Sensor Circuit Range/Performance
P203C	Reductant Level Sensor Circuit Low
P203D	Reductant Level Sensor Circuit High
P203E	Reductant Level Sensor Circuit Intermittent/Erratic
P203F	Reductant Level Too Low
P2040	Reductant Injection Air Pressure Sensor "A" Circuit High
P2041	Reductant Injection Air Pressure Sensor "A" Circuit Intermittent
P2042	Reductant Temperature Sensor Circuit
P2043	Reductant Temperature Sensor Circuit Range/Performance
P2044	Reductant Temperature Sensor Circuit Low
P2045	Reductant Temperature Sensor Circuit High
P2046	Reductant Temperature Sensor Circuit Intermittent
P2047	Reductant Injection Valve Circuit/Open
P2048	Reductant Injection Valve Circuit Low
P2049	Reductant Injection Valve Circuit High
P204A	Reductant Pressure Sensor Circuit
P204B	Reductant Pressure Sensor Circuit Range/Performance
P204C	Reductant Pressure Sensor Circuit Low
P204D	Reductant Pressure Sensor Circuit High
P204E	Reductant Pressure Sensor Circuit Intermittent/Erratic
P204F	Reductant System Performance
P2050	Reductant Injection Valve Circuit/Open
P2051	Reductant Injection Valve Circuit Low
P2052	Reductant Injection Valve Circuit High
P2053	Reductant Injection Valve Circuit/Open

P2054	Reductant Injection Valve Circuit Low
P2055	Reductant Injection Valve Circuit High
P2056	Reductant Injection Valve Circuit/Open
P2057	Reductant Injection Valve Circuit Low
P2058	Reductant Injection Valve Circuit High
P2059	Reductant Injection Air Pump Control Circuit/Open
P205A	Reductant Tank Temperature Sensor Circuit
P205B	Reductant Tank Temperature Sensor Circuit Range/Performance
P205C	Reductant Tank Temperature Sensor Circuit Low
P205D	Reductant Tank Temperature Sensor Circuit High
P205E	Reductant Tank Temperature Sensor Circuit Intermittent/Erratic
P205F	Reductant System Performance
P2060	Reductant Injection Air Pump Control Circuit Low
P2061	Reductant Injection Air Pump Control Circuit High
P2062	Reductant/Regeneration Supply Control Circuit/Open
P2063	Reductant/Regeneration Supply Control Circuit Low
P2064	Reductant/Regeneration Supply Control Circuit High
P2065	Fuel Level Sensor "B" Circuit
P2066	Fuel Level Sensor "B" Performance
P2067	Fuel Level Sensor "B" Circuit Low
P2068	Fuel Level Sensor "B" Circuit High
P2069	Fuel Level Sensor "B" Circuit Intermittent
P206A	Reductant Quality Sensor Circuit
P206B	Reductant Quality Sensor Circuit Range/Performance
P206C	Reductant Quality Sensor Circuit Low
P206D	Reductant Quality Sensor Circuit High
P206E	Intake Manifold Tuning (IMT) Valve Stuck Open
P206F	Intake Manifold Tuning (IMT) Valve Stuck Closed
P2070	Intake Manifold Tuning (IMT) Valve Stuck Open

P2071	Intake Manifold Tuning (IMT) Valve Stuck Closed
P2072	Throttle Actuator Control System - Ice Blockage
P2073	Manifold Absolute Pressure/Mass Air Flow - Throttle Position
P2074	Manifold Absolute Pressure/Mass Air Flow - Throttle Position
P2075	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P2076	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P2077	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P2078	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P2079	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P207A	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P207B	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P207C	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P207D	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P207E	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P207F	Reductant Quality Performance
P2080	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2081	Exhaust Gas Temperature Sensor Circuit Intermittent
P2082	Exhaust Gas Temperature Sensor Circuit Range/Performance

P2083	Exhaust Gas Temperature Sensor Circuit Intermittent
P2084	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2085	Exhaust Gas Temperature Sensor Circuit Intermittent
P2086	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2087	Exhaust Gas Temperature Sensor Circuit Intermittent
P2088	"A" Camshaft Position Actuator Control Circuit Low
P2089	"A" Camshaft Position Actuator Control Circuit High
P208A	Reductant Pump Control Circuit/Open
P208B	Reductant Pump Control Range/Performance
P208C	Reductant Pump Control Circuit Low
P208D	Reductant Pump Control Circuit High
P208E	Reductant Injection Valve Stuck Closed
P208F	Reductant Injection Valve Stuck Closed
P2090	"B" Camshaft Position Actuator Control Circuit Low
P2091	"B" Camshaft Position Actuator Control Circuit High
P2092	"A" Camshaft Position Actuator Control Circuit Low
P2093	"A" Camshaft Position Actuator Control Circuit High
P2094	"B" Camshaft Position Actuator Control Circuit Low
P2095	"B" Camshaft Position Actuator Control Circuit High
P2096	Post Catalyst Fuel Trim System Too Lean
P2097	Post Catalyst Fuel Trim System Too Rich
P2098	Post Catalyst Fuel Trim System Too Lean
P2099	Post Catalyst Fuel Trim System Too Rich
P209A	Reductant Injection Air Pressure Sensor "B" Circuit
P209B	Reductant Injection Air Pressure Sensor "B" Circuit
P209C	Reductant Injection Air Pressure Sensor "B" Circuit Low
P209D	Reductant Injection Air Pressure Sensor "B" Circuit High
P209E	Reductant Injection Air Pressure Sensor "A"/"B" Correlation
P209F	Reductant Tank Heater Control Circuit Performance

P20A0	Reductant Purge Control Valve Circuit /Open
P20A1	Reductant Purge Control Valve Performance
P20A2	Reductant Purge Control Valve Circuit Low
P20A3	Reductant Purge Control Valve Circuit High
P20A4	Reductant Purge Control Valve Stuck Open
P20A5	Reductant Purge Control Valve Stuck Closed
P20A6	Reductant Injection Air Pressure Control Valve Circuit/Open
P20A7	Reductant Injection Air Pressure Control Valve Performance
P20A8	Reductant Injection Air Pressure Control Valve Circuit Low
P20A9	Reductant Injection Air Pressure Control Valve Circuit High
P20AA	Reductant Injection Air Pressure Control Valve Stuck Open
P20AB	Reductant Injection Air Pressure Control Valve Stuck Closed
P20AC	Reductant Metering Unit Temperature Sensor Circuit
P20AD	Reductant Metering Unit Temperature Sensor Circuit
P20AE	Reductant Metering Unit Temperature Sensor Circuit Low
P20AF	Reductant Metering Unit Temperature Sensor Circuit High
P20B0	Reductant Metering Unit Temperature Sensor Circuit
P20B1	Reductant Heater Coolant Control Valve Circuit/Open
P20B2	Reductant Heater Coolant Control Valve Performance
P20B3	Reductant Heater Coolant Control Valve Circuit Low
P20B4	Reductant Heater Coolant Control Valve Circuit High
P20B5	Reductant Metering Unit Heater Control Circuit/Open
P20B6	Reductant Metering Unit Heater Control Circuit Performance
P20B7	Reductant Metering Unit Heater Control Circuit Low

P20B8	Reductant Metering Unit Heater Control Circuit High
P20B9	Reductant Heater "A" Control Circuit/Open
P20BA	Reductant Heater "A" Control Circuit Performance
P20BB	Reductant Heater "A" Control Circuit Low
P20BC	Reductant Heater "A" Control Circuit High
P20BD	Reductant Heater "B" Control Circuit/Open
P20BE	Reductant Heater "B" Control Circuit Performance
P20BF	Reductant Heater "B" Control Circuit Low
P20C0	Reductant Heater "B" Control Circuit High
P20C1	Reductant Heater "C" Control Circuit/Open
P20C2	Reductant Heater "C" Control Circuit Performance
P20C3	Reductant Heater "C" Control Circuit Low
P20C4	Reductant Heater "C" Control Circuit High
P20C5	Reductant Heater "D" Control Circuit/Open
P20C6	Reductant Heater "D" Control Circuit Performance
P20C7	Reductant Heater "D" Control Circuit Low
P20C8	Reductant Heater "D" Control Circuit High
P20C9	Reductant Control Module Requested MIL Illumination
P20CA	Reductant Injection Air Pressure Leakage
P20CB	Exhaust Aftertreatment Fuel Injector "A" Control Circuit/Open
P20CC	Exhaust Aftertreatment Fuel Injector "A" Control Performance
P20CD	Exhaust Aftertreatment Fuel Injector "A" Control Circuit Low
P20CE	Exhaust Aftertreatment Fuel Injector "A" Control Circuit High
P20CF	Exhaust Aftertreatment Fuel Injector "A" Stuck Open
P20D0	Exhaust Aftertreatment Fuel Injector "A" Stuck Closed
P20D1	Exhaust Aftertreatment Fuel Injector "B" Control Circuit/Open

P20D2	Exhaust Aftertreatment Fuel Injector "B" Control Performance
P20D3	Exhaust Aftertreatment Fuel Injector "B" Control Circuit Low
P20D4	Exhaust Aftertreatment Fuel Injector "B" Control Circuit High
P20D5	Exhaust Aftertreatment Fuel Injector "B" Stuck Open
P20D6	Exhaust Aftertreatment Fuel Injector "B" Stuck Closed
P20D7	Exhaust Aftertreatment Fuel Supply Control Circuit/Open
P20D8	Exhaust Aftertreatment Fuel Supply Control Performance
P20D9	Exhaust Aftertreatment Fuel Supply Control Circuit Low
P20DA	Exhaust Aftertreatment Fuel Supply Control Circuit High
P20DB	Exhaust Aftertreatment Fuel Supply Control Stuck Open
P20DC	Exhaust Aftertreatment Fuel Supply Control Stuck Closed
P20DD	Exhaust Aftertreatment Fuel Pressure Sensor Circuit
P20DE	Exhaust Aftertreatment Fuel Pressure Sensor Circuit
P20DF	Exhaust Aftertreatment Fuel Pressure Sensor Circuit Low
P20E0	Exhaust Aftertreatment Fuel Pressure Sensor Circuit High
P20E1	Exhaust Aftertreatment Fuel Pressure Sensor Circuit
P20E2	Exhaust Gas Temperature Sensor 1/2 Correlation
P20E3	Exhaust Gas Temperature Sensor 1/3 Correlation
P20E4	Exhaust Gas Temperature Sensor 2/3 Correlation
P20E5	Exhaust Gas Temperature Sensor 1/2 Correlation
P20E6	Reductant Injection Air Pressure Too Low
P20E7	Reductant Injection Air Pressure Too High
P20E8	Reductant Pressure Too Low
P20E9	Reductant Pressure Too High
P20EA	Reductant Control Module Power Relay De-Energized Performance
P20EB	Reductant Control Module Power Relay De-Energized Performance

P20EC	SCR NOX Catalyst - Over Temperature
P20ED	SCR NOX Pre-Catalyst - Over Temperature
P20EE	SCR NOX Catalyst Efficiency Below Threshold
P20EF	SCR NOX Pre- Catalyst Efficiency Below Threshold
P20F0	SCR NOX Catalyst - Over Temperature
P20F1	SCR NOX Pre-Catalyst - Over Temperature
P20F2	SCR NOX Catalyst Efficiency Below Threshold
P20F3	SCR NOX Pre- Catalyst Efficiency Below Threshold
P20F4	Reductant Consumption Too Low
P20F5	Reductant Consumption Too High
P20F6	Reductant Injection Valve Stuck Open
P20F7	Reductant Injection Valve Stuck Open

Code	Definition
P2100	Throttle Actuator "A" Control Motor Circuit/Open
P2101	Throttle Actuator "A" Control Motor Circuit Range/Performance
P2102	Throttle Actuator "A" Control Motor Circuit Low
P2103	Throttle Actuator "A" Control Motor Circuit High
P2104	Throttle Actuator Control System - Forced Idle
P2105	Throttle Actuator Control System - Forced Engine Shutdown
P2106	Throttle Actuator Control System - Forced Limited Power
P2107	Throttle Actuator Control Module Processor
P2108	Throttle Actuator Control Module Performance
P2109	Throttle/Pedal Position Sensor "A" Minimum Stop Performance
P210A	Throttle Actuator "B" Control Motor Circuit/Open
P210B	Throttle Actuator "B" Control Motor Circuit Range/Performance
P210C	Throttle Actuator "B" Control Motor Circuit Low
P210D	Throttle Actuator "B" Control Motor Circuit High
P210E	Throttle/Pedal Position Sensor/Switch "C"/"F" Voltage Correlation
P2110	Throttle Actuator Control System - Forced Limited RPM
P2111	Throttle Actuator Control System - Stuck Open
P2112	Throttle Actuator Control System - Stuck Closed
P2113	Throttle/Pedal Position Sensor "B" Minimum Stop Performance
P2114	Throttle/Pedal Position Sensor "C" Minimum Stop Performance

P2115	Throttle/Pedal Position Sensor "D" Minimum Stop Performance
P2116	Throttle/Pedal Position Sensor "E" Minimum Stop Performance
P2117	Throttle/Pedal Position Sensor "F" Minimum Stop Performance
P2118	Throttle Actuator Control Motor Current Range/Performance
P2119	Throttle Actuator Control Throttle Body Range/Performance
P2120	Throttle/Pedal Position Sensor/Switch "D" Circuit
P2121	Throttle/Pedal Position Sensor/Switch "D" Circuit
P2122	Throttle/Pedal Position Sensor/Switch "D" Circuit Low
P2123	Throttle/Pedal Position Sensor/Switch "D" Circuit High
P2124	Throttle/Pedal Position Sensor/Switch "D" Circuit Intermittent
P2125	Throttle/Pedal Position Sensor/Switch "E" Circuit
P2126	Throttle/Pedal Position Sensor/Switch "E" Circuit
P2127	Throttle/Pedal Position Sensor/Switch "E" Circuit Low
P2128	Throttle/Pedal Position Sensor/Switch "E" Circuit High
P2129	Throttle/Pedal Position Sensor/Switch "E" Circuit Intermittent
P212A	Throttle Position Sensor/Switch "G" Circuit
P212B	Throttle Position Sensor/Switch "G" Circuit Range/Performance
P212C	Throttle Position Sensor/Switch "G" Circuit Low
P212D	Throttle Position Sensor/Switch "G" Circuit High
P212E	Throttle Position Sensor/Switch "G" Circuit Intermittent
P2130	Throttle/Pedal Position Sensor/Switch "F" Circuit

P2131	Throttle/Pedal Position Sensor/Switch "F" Circuit
P2132	Throttle/Pedal Position Sensor/Switch "F" Circuit Low
P2133	Throttle/Pedal Position Sensor/Switch "F" Circuit High
P2134	Throttle/Pedal Position Sensor/Switch "F" Circuit Intermittent
P2135	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation
P2136	Throttle/Pedal Position Sensor/Switch "A"/"C" Voltage Correlation
P2137	Throttle/Pedal Position Sensor/Switch "B"/"C" Voltage Correlation
P2138	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation
P2139	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation
P213A	Exhaust Gas Recirculation Throttle Control Circuit "B" /Open
P213B	Exhaust Gas Recirculation Throttle Control Circuit "B"
P213C	Exhaust Gas Recirculation Throttle Control Circuit "B" Low
P213D	Exhaust Gas Recirculation Throttle Control Circuit "B" High
P213E	Fuel Injection System Fault - Forced Engine Shutdown
P213F	Fuel Pump System Fault - Forced Engine Shutdown
P2140	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation
P2141	Exhaust Gas Recirculation Throttle Control Circuit "A" Low
P2142	Exhaust Gas Recirculation Throttle Control Circuit "A" High
P2143	Exhaust Gas Recirculation Vent Control Circuit/Open
P2144	Exhaust Gas Recirculation Vent Control Circuit Low
P2145	Exhaust Gas Recirculation Vent Control Circuit High

P2146	Fuel Injector Group "A" Supply Voltage Circuit/Open
P2147	Fuel Injector Group "A" Supply Voltage Circuit Low
P2148	Fuel Injector Group "A" Supply Voltage Circuit High
P2149	Fuel Injector Group "B" Supply Voltage Circuit/Open
P2150	Fuel Injector Group "B" Supply Voltage Circuit Low
P2151	Fuel Injector Group "B" Supply Voltage Circuit High
P2152	Fuel Injector Group "C" Supply Voltage Circuit/Open
P2153	Fuel Injector Group "C" Supply Voltage Circuit Low
P2154	Fuel Injector Group "C" Supply Voltage Circuit High
P2155	Fuel Injector Group "D" Supply Voltage Circuit/Open
P2156	Fuel Injector Group "D" Supply Voltage Circuit Low
P2157	Fuel Injector Group "D" Supply Voltage Circuit High
P2158	Vehicle Speed Sensor "B"
P2159	Vehicle Speed Sensor "B" Range/Performance
P215A	Vehicle Speed - Wheel Speed Correlation
P215B	Vehicle Speed - Output Shaft Speed Correlation
P215C	Output Shaft Speed - Wheel Speed Correlation
P2160	Vehicle Speed Sensor "B" Circuit Low
P2161	Vehicle Speed Sensor "B" Intermittent/Erratic/High
P2162	Vehicle Speed Sensor "A"/"B" Correlation
P2163	Throttle/Pedal Position Sensor "A" Maximum Stop Performance
P2164	Throttle/Pedal Position Sensor "B" Maximum Stop Performance
P2165	Throttle/Pedal Position Sensor "C" Maximum Stop Performance
P2166	Throttle/Pedal Position Sensor "D" Maximum Stop Performance

P2167	Throttle/Pedal Position Sensor "E" Maximum Stop Performance
P2168	Throttle/Pedal Position Sensor "F" Maximum Stop Performance
P2169	Exhaust Pressure Regulator Vent Solenoid Control Circuit/Open
P216A	Fuel Injector Group "E" Supply Voltage Circuit/Open
P216B	Fuel Injector Group "E" Supply Voltage Circuit Low
P216C	Fuel Injector Group "E" Supply Voltage Circuit High
P216D	Fuel Injector Group "F" Supply Voltage Circuit/Open
P216E	Fuel Injector Group "F" Supply Voltage Circuit Low
P216F	Fuel Injector Group "F" Supply Voltage Circuit High
P2170	Exhaust Pressure Regulator Vent Solenoid Control Circuit Low
P2171	Exhaust Pressure Regulator Vent Solenoid Control Circuit High
P2172	Throttle Actuator Control System - Sudden High Air Flow Detected
P2173	Throttle Actuator Control System - High Air Flow Detected
P2174	Throttle Actuator Control System - Sudden Low Air Flow Detected
P2175	Throttle Actuator Control System - Low Air Flow Detected
P2176	Throttle Actuator Control System - Idle Position not Learned
P2177	System Too Lean Off Idle
P2178	System Too Rich Off Idle
P2179	System Too Lean Off Idle
P217A	Fuel Injector Group "G" Supply Voltage Circuit/Open
P217B	Fuel Injector Group "G" Supply Voltage Circuit Low

P217C	Fuel Injector Group "G" Supply Voltage Circuit High
P217D	Fuel Injector Group "H" Supply Voltage Circuit/Open
P217E	Fuel Injector Group "H" Supply Voltage Circuit Low
P217F	Fuel Injector Group "H" Supply Voltage Circuit High
P2180	System Too Rich Off Idle
P2181	Cooling System Performance
P2182	Engine Coolant Temperature Sensor 2 Circuit
P2183	Engine Coolant Temperature Sensor 2 Circuit Range/Performance
P2184	Engine Coolant Temperature Sensor 2 Circuit Low
P2185	Engine Coolant Temperature Sensor 2 Circuit High
P2186	Engine Coolant Temperature Sensor 2 Circuit Intermittent/Erratic
P2187	System Too Lean at Idle
P2188	System Too Rich at Idle
P2189	System Too Lean at Idle
P2190	System Too Rich at Idle
P2191	System Too Lean at Higher Load
P2192	System Too Rich at Higher Load
P2193	System Too Lean at Higher Load
P2194	System Too Rich at Higher Load
P2195	O2 Sensor Signal Biased/Stuck Lean
P2196	O2 Sensor Signal Biased/Stuck Rich
P2197	O2 Sensor Signal Biased/Stuck Lean
P2198	O2 Sensor Signal Biased/Stuck Rich
P2199	Intake Air Temperature Sensor 1/2 Correlation

Code	Definition
P2200	NOX Sensor Circuit
P2201	NOX Sensor Circuit Range/Performance
P2202	NOX Sensor Circuit Low
P2203	NOX Sensor Circuit High
P2204	NOX Sensor Circuit Intermittent
P2205	NOX Sensor Heater Control Circuit/Open
P2206	NOX Sensor Heater Control Circuit Low
P2207	NOX Sensor Heater Control Circuit High
P2208	NOX Sensor Heater Sense Circuit
P2209	NOX Sensor Heater Sense Circuit Range/Performance
P2210	NOX Sensor Heater Sense Circuit Low
P2211	NOX Sensor Heater Sense Circuit High
P2212	NOX Sensor Heater Sense Circuit Intermittent
P2213	NOX Sensor Circuit
P2214	NOX Sensor Circuit Range/Performance
P2215	NOX Sensor Circuit Low
P2216	NOX Sensor Circuit High
P2217	NOX Sensor Circuit Intermittent
P2218	NOX Sensor Heater Control Circuit/Open
P2219	NOX Sensor Heater Control Circuit Low
P2220	NOX Sensor Heater Control Circuit High
P2221	NOX Sensor Heater Sense Circuit
P2222	NOX Sensor Heater Sense Circuit Range/Performance
P2223	NOX Sensor Heater Sense Circuit Low
P2224	NOX Sensor Heater Sense Circuit High
P2225	NOX Sensor Heater Sense Circuit Intermittent
P2226	Barometric Pressure Sensor "A" Circuit

P2227	Barometric Pressure Sensor "A" Circuit Range/Performance
P2228	Barometric Pressure Sensor "A" Circuit Low
P2229	Barometric Pressure Sensor "A" Circuit High
P222A	Barometric Pressure Sensor "B" Circuit
P222B	Barometric Pressure Sensor "B" Circuit Range/Performance
P222C	Barometric Pressure Sensor "B" Circuit Low
P222D	Barometric Pressure Sensor "B" Circuit High
P222E	Barometric Pressure Sensor "B" Circuit Intermittent/Erratic
P222F	Barometric Pressure Sensor "A"/"B" Correlation
P2230	Barometric Pressure Sensor "A" Circuit Intermittent/Erratic
P2231	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2232	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2233	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2234	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2235	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2236	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2237	O2 Sensor Positive Current Control Circuit/Open
P2238	O2 Sensor Positive Current Control Circuit Low
P2239	O2 Sensor Positive Current Control Circuit High
P2240	O2 Sensor Positive Current Control Circuit/Open
P2241	O2 Sensor Positive Current Control Circuit Low
P2242	O2 Sensor Positive Current Control Circuit High
P2243	O2 Sensor Reference Voltage Circuit/Open
P2244	O2 Sensor Reference Voltage Performance
P2245	O2 Sensor Reference Voltage Circuit Low

P2246	O2 Sensor Reference Voltage Circuit High
P2247	O2 Sensor Reference Voltage Circuit/Open
P2248	O2 Sensor Reference Voltage Performance
P2249	O2 Sensor Reference Voltage Circuit Low
P2250	O2 Sensor Reference Voltage Circuit High
P2251	O2 Sensor Negative Current Control Circuit/Open
P2252	O2 Sensor Negative Current Control Circuit Low
P2253	O2 Sensor Negative Current Control Circuit High
P2254	O2 Sensor Negative Current Control Circuit/Open
P2255	O2 Sensor Negative Current Control Circuit Low
P2256	O2 Sensor Negative Current Control Circuit High
P2257	Secondary Air Injection System Control "A" Circuit Low
P2258	Secondary Air Injection System Control "A" Circuit High
P2259	Secondary Air Injection System Control "B" Circuit Low
P2260	Secondary Air Injection System Control "B" Circuit High
P2261	Turbocharger/Supercharger Bypass Valve - Mechanical
P2262	Turbocharger/Supercharger Boost Pressure not Detected -
P2263	Turbocharger/Supercharger Boost System Performance
P2264	Water in Fuel Sensor Circuit
P2265	Water in Fuel Sensor Circuit Range/Performance
P2266	Water in Fuel Sensor Circuit Low
P2267	Water in Fuel Sensor Circuit High
P2268	Water in Fuel Sensor Circuit Intermittent
P2269	Water in Fuel Condition
P226A	Water in Fuel Lamp Control Circuit
P226B	Turbocharger/Supercharger Boost Pressure Too High - Mechanical

P2270	O2 Sensor Signal Biased/Stuck Lean
P2271	O2 Sensor Signal Biased/Stuck Rich
P2272	O2 Sensor Signal Biased/Stuck Lean
P2273	O2 Sensor Signal Biased/Stuck Rich
P2274	O2 Sensor Signal Biased/Stuck Lean
P2275	O2 Sensor Signal Biased/Stuck Rich
P2276	O2 Sensor Signal Biased/Stuck Lean
P2277	O2 Sensor Signal Biased/Stuck Rich
P2278	O2 Sensor Signals Swapped Bank 1 Sensor 3/Bank 2 Sensor 3
P2279	Intake Air System Leak
P2280	Air Flow Restriction/Air Leak Between Air Filter and MAF
P2281	Air Leak Between MAF and Throttle Body
P2282	Air Leak Between Throttle Body and Intake Valves
P2283	Injector Control Pressure Sensor Circuit
P2284	Injector Control Pressure Sensor Circuit Range/Performance
P2285	Injector Control Pressure Sensor Circuit Low
P2286	Injector Control Pressure Sensor Circuit High
P2287	Injector Control Pressure Sensor Circuit Intermittent
P2288	Injector Control Pressure Too High
P2289	Injector Control Pressure Too High - Engine Off
P228A	Fuel Pressure Regulator 1 - Forced Engine Shutdown
P228B	Fuel Pressure Regulator 2 - Forced Engine Shutdown
P228C	Fuel Pressure Regulator 1 Exceeded Control Limits - Pressure Too
P228D	Fuel Pressure Regulator 1 Exceeded Control Limits - Pressure Too

P228E	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too Low
P228F	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too High
P2290	Injector Control Pressure Too Low
P2291	Injector Control Pressure Too Low - Engine Cranking
P2292	Injector Control Pressure Erratic
P2293	Fuel Pressure Regulator 2 Performance
P2294	Fuel Pressure Regulator 2 Control Circuit/Open
P2295	Fuel Pressure Regulator 2 Control Circuit Low
P2296	Fuel Pressure Regulator 2 Control Circuit High
P2297	O2 Sensor Out of Range During Deceleration
P2298	O2 Sensor Out of Range During Deceleration
P2299	Brake Pedal Position/Accelerator Pedal Position Incompatible
P229A	Fuel Pressure Regulator 2 Exceeded Control Limits - Pressure Too
P229B	Fuel Pressure Regulator 2 Exceeded Control Limits - Pressure Too
P229C	Fuel Pressure Regulator 2 Exceeded Learning Limits - Too Low
P229D	Fuel Pressure Regulator 2 Exceeded Learning Limits - Too High

Code	Definition
P2300	Ignition Coil "A" Primary Control Circuit Low
P2301	Ignition Coil "A" Primary Control Circuit High
P2302	Ignition Coil "A" Secondary Circuit
P2303	Ignition Coil "B" Primary Control Circuit Low
P2304	Ignition Coil "B" Primary Control Circuit High
P2305	Ignition Coil "B" Secondary Circuit
P2306	Ignition Coil "C" Primary Control Circuit Low
P2307	Ignition Coil "C" Primary Control Circuit High
P2308	Ignition Coil "C" Secondary Circuit
P2309	Ignition Coil "D" Primary Control Circuit Low
P2310	Ignition Coil "D" Primary Control Circuit High
P2311	Ignition Coil "D" Secondary Circuit
P2312	Ignition Coil "E" Primary Control Circuit Low
P2313	Ignition Coil "E" Primary Control Circuit High
P2314	Ignition Coil "E" Secondary Circuit
P2315	Ignition Coil "F" Primary Control Circuit Low
P2316	Ignition Coil "F" Primary Control Circuit High
P2317	Ignition Coil "F" Secondary Circuit
P2318	Ignition Coil "G" Primary Control Circuit Low
P2319	Ignition Coil "G" Primary Control Circuit High
P2320	Ignition Coil "G" Secondary Circuit
P2321	Ignition Coil "H" Primary Control Circuit Low
P2322	Ignition Coil "H" Primary Control Circuit High
P2323	Ignition Coil "H" Secondary Circuit
P2324	Ignition Coil "I" Primary Control Circuit Low
P2325	Ignition Coil "I" Primary Control Circuit High
P2326	Ignition Coil "I" Secondary Circuit

P2327	Ignition Coil "J" Primary Control Circuit Low
P2328	Ignition Coil "J" Primary Control Circuit High
P2329	Ignition Coil "J" Secondary Circuit
P2330	Ignition Coil "K" Primary Control Circuit Low
P2331	Ignition Coil "K" Primary Control Circuit High
P2332	Ignition Coil "K" Secondary Circuit
P2333	Ignition Coil "L" Primary Control Circuit Low
P2334	Ignition Coil "L" Primary Control Circuit High
P2335	Ignition Coil "L" Secondary Circuit
P2336	Cylinder 1 Above Knock Threshold
P2337	Cylinder 2 Above Knock Threshold
P2338	Cylinder 3 Above Knock Threshold
P2339	Cylinder 4 Above Knock Threshold
P2340	Cylinder 5 Above Knock Threshold
P2341	Cylinder 6 Above Knock Threshold
P2342	Cylinder 7 Above Knock Threshold
P2343	Cylinder 8 Above Knock Threshold
P2344	Cylinder 9 Above Knock Threshold
P2345	Cylinder 10 Above Knock Threshold
P2346	Cylinder 11 Above Knock Threshold
P2347	Cylinder 12 Above Knock Threshold

Code	Definition
P2400	Evaporative Emission System Leak Detection Pump Control
P2401	Evaporative Emission System Leak Detection Pump Control Circuit
P2402	Evaporative Emission System Leak Detection Pump Control Circuit
P2403	Evaporative Emission System Leak Detection Pump Sense
P2404	Evaporative Emission System Leak Detection Pump Sense Circuit
P2405	Evaporative Emission System Leak Detection Pump Sense Circuit
P2406	Evaporative Emission System Leak Detection Pump Sense Circuit
P2407	Evaporative Emission System Leak Detection Pump Sense Circuit
P2408	Fuel Cap Sensor/Switch Circuit
P2409	Fuel Cap Sensor/Switch Circuit Range/Performance
P240A	Evaporative Emission System Leak Detection Pump Heater Control
P240B	Evaporative Emission System Leak Detection Pump Heater Control
P240C	Evaporative Emission System Leak Detection Pump Heater Control
P2410	Fuel Cap Sensor/Switch Circuit Low
P2411	Fuel Cap Sensor/Switch Circuit High
P2412	Fuel Cap Sensor/Switch Circuit Intermittent/Erratic
P2413	Exhaust Gas Recirculation System Performance
P2414	O2 Sensor Exhaust Sample Error
P2415	O2 Sensor Exhaust Sample Error

P2416	O2 Sensor Signals Swapped Bank 1 Sensor 2/Bank 1 Sensor 3
P2417	O2 Sensor Signals Swapped Bank 2 Sensor 2/Bank 2 Sensor 3
P2418	Evaporative Emission System Switching Valve Control Circuit/Open
P2419	Evaporative Emission System Switching Valve Control Circuit Low
P2420	Evaporative Emission System Switching Valve Control Circuit High
P2421	Evaporative Emission System Vent Valve Stuck Open
P2422	Evaporative Emission System Vent Valve Stuck Closed
P2423	HC Adsorption Catalyst Efficiency Below Threshold
P2424	HC Adsorption Catalyst Efficiency Below Threshold
P2425	Exhaust Gas Recirculation Cooling Valve Control Circuit/Open
P2426	Exhaust Gas Recirculation Cooling Valve Control Circuit Low
P2427	Exhaust Gas Recirculation Cooling Valve Control Circuit High
P2428	Exhaust Gas Temperature Too High
P2429	Exhaust Gas Temperature Too High
P242A	Exhaust Gas Temperature Sensor Circuit
P242B	Exhaust Gas Temperature Sensor Circuit Range/Performance
P242C	Exhaust Gas Temperature Sensor Circuit Low
P242D	Exhaust Gas Temperature Sensor Circuit High
P242E	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P242F	Diesel Particulate Filter Restriction - Ash Accumulation

P2430	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2431	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2432	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2433	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2434	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2435	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2436	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2437	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2438	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2439	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2440	Secondary Air Injection System Switching Valve Stuck Open
P2441	Secondary Air Injection System Switching Valve Stuck Closed
P2442	Secondary Air Injection System Switching Valve Stuck Open
P2443	Secondary Air Injection System Switching Valve Stuck Closed
P2444	Secondary Air Injection System Pump Stuck On
P2445	Secondary Air Injection System Pump Stuck Off

P2446	Secondary Air Injection System Pump Stuck On
P2447	Secondary Air Injection System Pump Stuck Off
P2448	Secondary Air Injection System High Air Flow
P2449	Secondary Air Injection System High Air Flow
P244A	Diesel Particulate Filter Differential Pressure Too Low
P244B	Diesel Particulate Filter Differential Pressure Too High
P244C	Exhaust Temperature Too Low For Particulate Filter Regeneration
P244D	Exhaust Temperature Too High For Particulate Filter Regeneration
P244E	Exhaust Temperature Too Low For Particulate Filter Regeneration
P244F	Exhaust Temperature Too High For Particulate Filter Regeneration
P2450	Evaporative Emission System Switching Valve Performance/Stuck
P2451	Evaporative Emission System Switching Valve Stuck Closed
P2452	Diesel Particulate Filter Pressure Sensor "A" Circuit
P2453	Diesel Particulate Filter Pressure Sensor "A" Circuit
P2454	Diesel Particulate Filter Pressure Sensor "A" Circuit Low
P2455	Diesel Particulate Filter Pressure Sensor "A" Circuit High
P2456	Diesel Particulate Filter Pressure Sensor "A" Circuit
P2457	Exhaust Gas Recirculation Cooling System Performance
P2458	Diesel Particulate Filter Regeneration Duration
P2459	Diesel Particulate Filter Regeneration Frequency
P245A	Exhaust Gas Recirculation Cooler Bypass Control Circuit/Open
P245B	Exhaust Gas Recirculation Cooler Bypass Control Circuit

P245C	Exhaust Gas Recirculation Cooler Bypass Control Circuit Low
P245D	Exhaust Gas Recirculation Cooler Bypass Control Circuit High
P245E	Diesel Particulate Filter Pressure Sensor "B" Circuit
P245F	Diesel Particulate Filter Pressure Sensor "B" Circuit
P2460	Diesel Particulate Filter Pressure Sensor "B" Circuit Low
P2461	Diesel Particulate Filter Pressure Sensor "B" Circuit High
P2462	Diesel Particulate Filter Pressure Sensor "B" Circuit
P2463	Diesel Particulate Filter Restriction - Soot Accumulation
P2464	Diesel Particulate Filter Differential Pressure Too Low
P2465	Diesel Particulate Filter Differential Pressure Too High
P2466	Exhaust Gas Temperature Sensor Circuit
P2467	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2468	Exhaust Gas Temperature Sensor Circuit Low
P2469	Exhaust Gas Temperature Sensor Circuit High
P246A	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P246B	Vehicle Conditions Incorrect for Diesel Particulate Filter
P246C	Diesel Particulate Filter Restriction - Forced Limited Power
P246D	Diesel Particulate Filter Pressure Sensor "A"/"B" Correlation
P246E	Exhaust Gas Temperature Sensor Circuit
P246F	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2470	Exhaust Gas Temperature Sensor Circuit Low
P2471	Exhaust Gas Temperature Sensor Circuit High

P2472	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P2473	Exhaust Gas Temperature Sensor Circuit
P2474	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2475	Exhaust Gas Temperature Sensor Circuit Low
P2476	Exhaust Gas Temperature Sensor Circuit High
P2477	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P2478	Exhaust Gas Temperature Out of Range
P2479	Exhaust Gas Temperature Out of Range
P247A	Exhaust Gas Temperature Out of Range
P247B	Exhaust Gas Temperature Out of Range
P247C	Exhaust Gas Temperature Out of Range
P247D	Exhaust Gas Temperature Out of Range
P247E	Exhaust Gas Temperature Out of Range
P247F	Exhaust Gas Temperature Out of Range
P2480	Exhaust Gas Temperature Sensor Circuit/Open
P2481	Exhaust Gas Temperature Sensor Circuit Low
P2482	Exhaust Gas Temperature Sensor Circuit High
P2483	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2484	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P2485	Exhaust Gas Temperature Sensor Circuit/Open
P2486	Exhaust Gas Temperature Sensor Circuit Low
P2487	Exhaust Gas Temperature Sensor Circuit High
P2488	Exhaust Gas Temperature Sensor Circuit Range/Performance

P2489

Exhaust Gas Temperature Sensor Circuit  
Intermittent/Erratic

Code	Definition
P2500	Generator Lamp/L-Terminal Circuit Low
P2501	Generator Lamp/L-Terminal Circuit High
P2502	Charging System Voltage
P2503	Charging System Voltage Low
P2504	Charging System Voltage High
P2505	ECM/PCM Power Input Signal
P2506	ECM/PCM Power Input Signal Range/Performance
P2507	ECM/PCM Power Input Signal Low
P2508	ECM/PCM Power Input Signal High
P2509	ECM/PCM Power Input Signal Intermittent
P250A	Engine Oil Level Sensor Circuit
P250B	Engine Oil Level Sensor Circuit Range/Performance
P250C	Engine Oil Level Sensor Circuit Low
P250D	Engine Oil Level Sensor Circuit High
P250E	Engine Oil Level Sensor Circuit Intermittent/Erratic
P250F	Engine Oil Level Too Low
P2510	ECM/PCM Power Relay Sense Circuit Range/Performance
P2511	ECM/PCM Power Relay Sense Circuit Intermittent
P2512	Event Data Recorder Request Circuit/ Open
P2513	Event Data Recorder Request Circuit Low
P2514	Event Data Recorder Request Circuit High
P2515	A/C Refrigerant Pressure Sensor "B" Circuit
P2516	A/C Refrigerant Pressure Sensor "B" Circuit Range/Performance
P2517	A/C Refrigerant Pressure Sensor "B" Circuit Low
P2518	A/C Refrigerant Pressure Sensor "B" Circuit High
P2519	A/C Request "A" Circuit

P251A	PTO Enable Switch Circuit/Open
P251B	PTO Enable Switch Circuit Low
P251C	PTO Enable Switch Circuit High
P251D	PTO Engine Shutdown Circuit/Open
P251E	PTO Engine Shutdown Circuit Low
P251F	PTO Engine Shutdown Circuit High
P2520	A/C Request "A" Circuit Low
P2521	A/C Request "A" Circuit High
P2522	A/C Request "B" Circuit
P2523	A/C Request "B" Circuit Low
P2524	A/C Request "B" Circuit High
P2525	Vacuum Reservoir Pressure Sensor Circuit
P2526	Vacuum Reservoir Pressure Sensor Circuit Range/Performance
P2527	Vacuum Reservoir Pressure Sensor Circuit Low
P2528	Vacuum Reservoir Pressure Sensor Circuit High
P2529	Vacuum Reservoir Pressure Sensor Circuit Intermittent
P252A	Engine Oil Quality Sensor Circuit
P252B	Engine Oil Quality Sensor Circuit Range/Performance
P252C	Engine Oil Quality Sensor Circuit Low
P252D	Engine Oil Quality Sensor Circuit High
P252E	Engine Oil Quality Circuit Intermittent/Erratic
P252F	Engine Oil Level Too High
P2530	Ignition Switch Run Position Circuit
P2531	Ignition Switch Run Position Circuit Low
P2532	Ignition Switch Run Position Circuit High
P2533	Ignition Switch Run/Start Position Circuit

P2534	Ignition Switch Run/Start Position Circuit Low
P2535	Ignition Switch Run/Start Position Circuit High
P2536	Ignition Switch Accessory Position Circuit
P2537	Ignition Switch Accessory Position Circuit Low
P2538	Ignition Switch Accessory Position Circuit High
P2539	Low Pressure Fuel System Sensor Circuit
P253A	PTO Sense Circuit/Open
P253B	PTO Sense Circuit Range/Performance
P253C	PTO Sense Circuit Low
P253D	PTO Sense Circuit High
P253E	PTO Sense Circuit Intermittent/Erratic
P253F	Engine Oil Deteriorated
P2540	Low Pressure Fuel System Sensor Circuit Range/Performance
P2541	Low Pressure Fuel System Sensor Circuit Low
P2542	Low Pressure Fuel System Sensor Circuit High
P2543	Low Pressure Fuel System Sensor Circuit Intermittent
P2544	Torque Management Request Input Signal "A"
P2545	Torque Management Request Input Signal "A" Range/Performance
P2546	Torque Management Request Input Signal "A" Low
P2547	Torque Management Request Input Signal "A" High
P2548	Torque Management Request Input Signal "B"
P2549	Torque Management Request Input Signal "B" Range/Performance
P254A	PTO Speed Selector Sensor/Switch 1 Circuit/Open
P254B	PTO Speed Selector Sensor/Switch 1 Range/Performance
P254C	PTO Speed Selector Sensor/Switch 1 Circuit Low
P254D	PTO Speed Selector Sensor/Switch 1 Circuit High

P254E	PTO Speed Selector Sensor/Switch 1 Circuit Intermittent/Erratic
P254F	Engine Hood Switch Circuit
P2550	Torque Management Request Input Signal "B" Low
P2551	Torque Management Request Input Signal "B" High
P2552	Throttle/Fuel Inhibit Circuit
P2553	Throttle/Fuel Inhibit Circuit Range/Performance
P2554	Throttle/Fuel Inhibit Circuit Low
P2555	Throttle/Fuel Inhibit Circuit High
P2556	Engine Coolant Level Sensor/Switch Circuit
P2557	Engine Coolant Level Sensor/Switch Circuit Range/Performance
P2558	Engine Coolant Level Sensor/Switch Circuit Low
P2559	Engine Coolant Level Sensor/Switch Circuit High
P255A	PTO Speed Selector Sensor/Switch 2 Circuit/Open
P255B	PTO Speed Selector Sensor/Switch 2 Range/Performance
P255C	PTO Speed Selector Sensor/Switch 2 Circuit Low
P255D	PTO Speed Selector Sensor/Switch 2 Circuit High
P255E	PTO Speed Selector Sensor/Switch 2 Circuit Intermittent/Erratic
P255F	A/C Request "A" Circuit Range/Performance
P2560	Engine Coolant Level Low
P2561	A/C Control Module Requested MIL Illumination
P2562	Turbocharger Boost Control Position Sensor "A" Circuit
P2563	Turbocharger Boost Control Position Sensor "A" Circuit
P2564	Turbocharger Boost Control Position Sensor "A" Circuit Low
P2565	Turbocharger Boost Control Position Sensor "A" Circuit High

P2566	Turbocharger Boost Control Position Sensor "A" Circuit Intermittent
P2567	Direct Ozone Reduction Catalyst Temperature Sensor Circuit
P2568	Direct Ozone Reduction Catalyst Temperature Sensor Circuit
P2569	Direct Ozone Reduction Catalyst Temperature Sensor Circuit Low
P256A	Engine Idle Speed Selector Sensor/Switch Circuit/Open
P256B	Engine Idle Speed Selector Sensor/Switch Range/Performance
P256C	Engine Idle Speed Selector Sensor/Switch Circuit Low
P256D	Engine Idle Speed Selector Sensor/Switch Circuit High
P256E	Engine Idle Speed Selector Sensor/Switch Circuit
P256F	A/C Request "B" Circuit Range/Performance
P2570	Direct Ozone Reduction Catalyst Temperature Sensor Circuit High
P2571	Direct Ozone Reduction Catalyst Temperature Sensor Circuit
P2572	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit
P2573	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit
P2574	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Low
P2575	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit High
P2576	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit

P2577	Direct Ozone Reduction Catalyst Efficiency Below Threshold
P2578	Turbocharger Speed Sensor Circuit
P2579	Turbocharger Speed Sensor Circuit Range/Performance
P257A	Vacuum Reservoir Control Circuit/Open
P257B	Vacuum Reservoir Control Circuit Low
P257C	Vacuum Reservoir Control Circuit High
P257D	Engine Hood Switch Circuit Range/Performance
P257E	Engine Hood Switch Circuit Low
P257F	Engine Hood Switch Circuit High
P2580	Turbocharger Speed Sensor Circuit Low
P2581	Turbocharger Speed Sensor Circuit High
P2582	Turbocharger Speed Sensor Circuit Intermittent
P2583	Cruise Control Front Distance Range Sensor
P2584	Fuel Additive Control Module Requested MIL Illumination
P2585	Fuel Additive Control Module Warning Lamp Request
P2586	Turbocharger Boost Control Position Sensor "B" Circuit
P2587	Turbocharger Boost Control Position Sensor "B" Circuit
P2588	Turbocharger Boost Control Position Sensor "B" Circuit Low
P2589	Turbocharger Boost Control Position Sensor "B" Circuit High
P258A	Vacuum Pump Control Circuit/Open
P258B	Vacuum Pump Control Range/Performance
P258C	Vacuum Pump Control Circuit Low
P258D	Vacuum Pump Control Circuit High
P258E	PTO Enable Switch Performance
P258F	Torque Management Request Output Signal
P2590	Turbocharger Boost Control Position Sensor "B" Circuit

P2591	Cruise Control Front Distance Range Sensor
P2592	Cruise Control Front Distance Range Sensor

Code	Definition
P2600	Coolant Pump "A" Control Circuit/Open
P2601	Coolant Pump "A" Control Circuit Range/Performance
P2602	Coolant Pump "A" Control Circuit Low
P2603	Coolant Pump "A" Control Circuit High
P2604	Intake Air Heater "A" Circuit Range/Performance
P2605	Intake Air Heater "B" Circuit/Open
P2606	Intake Air Heater "B" Circuit Range/Performance
P2607	Intake Air Heater "B" Circuit Low
P2608	Intake Air Heater "B" Circuit High
P2609	Intake Air Heater System Performance
P260A	PTO Control Circuit/Open
P260B	PTO Control Circuit Low
P260C	PTO Control Circuit High
P260D	PTO Engaged Lamp Control Circuit
P260E	Diesel Particulate Filter Regeneration Lamp Control Circuit
P260F	Evaporative System Monitoring Processor Performance
P2610	ECM/PCM Internal Engine Off Timer Performance
P2611	A/C Refrigerant Distribution Valve Control Circuit/Open
P2612	A/C Refrigerant Distribution Valve Control Circuit Low
P2613	A/C Refrigerant Distribution Valve Control Circuit High
P2614	Camshaft Position Signal Output Circuit/Open
P2615	Camshaft Position Signal Output Circuit Low
P2616	Camshaft Position Signal Output Circuit High
P2617	Crankshaft Position Signal Output Circuit/Open
P2618	Crankshaft Position Signal Output Circuit Low
P2619	Crankshaft Position Signal Output Circuit High
P261A	Coolant Pump "B" Control Circuit/Open

P261B	Coolant Pump "B" Control Circuit Range/Performance
P261C	Coolant Pump "B" Control Circuit Low
P261D	Coolant Pump "B" Control Circuit High
P2620	Throttle Position Output Circuit/Open
P2621	Throttle Position Output Circuit Low
P2622	Throttle Position Output Circuit High
P2623	Injector Control Pressure Regulator Circuit/Open
P2624	Injector Control Pressure Regulator Circuit Low
P2625	Injector Control Pressure Regulator Circuit High
P2626	O2 Sensor Pumping Current Trim Circuit/Open
P2627	O2 Sensor Pumping Current Trim Circuit Low
P2628	O2 Sensor Pumping Current Trim Circuit High
P2629	O2 Sensor Pumping Current Trim Circuit/Open
P2630	O2 Sensor Pumping Current Trim Circuit Low
P2631	O2 Sensor Pumping Current Trim Circuit High
P2632	Fuel Pump "B" Control Circuit /Open
P2633	Fuel Pump "B" Control Circuit Low
P2634	Fuel Pump "B" Control Circuit High
P2635	Fuel Pump "A" Low Flow/Performance
P2636	Fuel Pump "B" Low Flow/Performance
P2637	Torque Management Feedback Signal "A"
P2638	Torque Management Feedback Signal "A" Range/Performance
P2639	Torque Management Feedback Signal "A" Low
P2640	Torque Management Feedback Signal "A" High
P2641	Torque Management Feedback Signal "B"
P2642	Torque Management Feedback Signal "B" Range/Performance

P2643	Torque Management Feedback Signal "B" Low
P2644	Torque Management Feedback Signal "B" High
P2645	"A" Rocker Arm Actuator Control Circuit/Open
P2646	"A" Rocker Arm Actuator System Performance/Stuck Off
P2647	"A" Rocker Arm Actuator System Stuck On
P2648	"A" Rocker Arm Actuator Control Circuit Low
P2649	"A" Rocker Arm Actuator Control Circuit High
P264A	"A" Rocker Arm Actuator Position Sensor Circuit
P264B	"A" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P264C	"A" Rocker Arm Actuator Position Sensor Circuit Low
P264D	"A" Rocker Arm Actuator Position Sensor Circuit High
P264E	"A" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P2650	"B" Rocker Arm Actuator Control Circuit/Open
P2651	"B" Rocker Arm Actuator System Performance/Stuck Off
P2652	"B" Rocker Arm Actuator System Stuck On
P2653	"B" Rocker Arm Actuator Control Circuit Low
P2654	"B" Rocker Arm Actuator Control Circuit High
P2655	"A" Rocker Arm Actuator Control Circuit/Open
P2656	"A" Rocker Arm Actuator System Performance/Stuck Off
P2657	"A" Rocker Arm Actuator System Stuck On
P2658	"A" Rocker Arm Actuator Control Circuit Low
P2659	"A" Rocker Arm Actuator Control Circuit High
P265A	"B" Rocker Arm Actuator Position Sensor Circuit
P265B	"B" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P265C	"B" Rocker Arm Actuator Position Sensor Circuit Low
P265D	"B" Rocker Arm Actuator Position Sensor Circuit High

P265E	"B" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P2660	"B" Rocker Arm Actuator Control Circuit/Open
P2661	"B" Rocker Arm Actuator System Performance/Stuck Off
P2662	"B" Rocker Arm Actuator System Stuck On
P2663	"B" Rocker Arm Actuator Control Circuit Low
P2664	"B" Rocker Arm Actuator Control Circuit High
P2665	Fuel Shutoff Valve "B" Control Circuit/Open
P2666	Fuel Shutoff Valve "B" Control Circuit Low
P2667	Fuel Shutoff Valve "B" Control Circuit High
P2668	Fuel Mode Indicator Lamp Control Circuit
P2669	Actuator Supply Voltage "B" Circuit /Open
P266A	"A" Rocker Arm Actuator Position Sensor Circuit
P266B	"A" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P266C	"A" Rocker Arm Actuator Position Sensor Circuit Low
P266D	"A" Rocker Arm Actuator Position Sensor Circuit High
P266E	"A" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P2670	Actuator Supply Voltage "B" Circuit Low
P2671	Actuator Supply Voltage "B" Circuit High
P2672	Injection Pump Timing Offset
P2673	Injection Pump Timing Calibration not Learned
P2674	Injection Pump Fuel Calibration not Learned
P2675	Air Cleaner Inlet Control Circuit/Open
P2676	Air Cleaner Inlet Control Circuit Low
P2677	Air Cleaner Inlet Control Circuit High
P2678	Coolant Degassing Valve Control Circuit/Open
P2679	Coolant Degassing Valve Control Circuit Low

P267A	"B" Rocker Arm Actuator Position Sensor Circuit
P267B	"B" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P267C	"B" Rocker Arm Actuator Position Sensor Circuit Low
P267D	"B" Rocker Arm Actuator Position Sensor Circuit High
P267E	"B" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P2680	Coolant Degassing Valve Control Circuit High
P2681	Engine Coolant Bypass Valve Control Circuit/Open
P2682	Engine Coolant Bypass Valve Control Circuit Low
P2683	Engine Coolant Bypass Valve Control Circuit High
P2684	Actuator Supply Voltage "C" Circuit/Open
P2685	Actuator Supply Voltage "C" Circuit Low
P2686	Actuator Supply Voltage "C" Circuit High
P2687	Fuel Supply Heater Control Circuit/Open
P2688	Fuel Supply Heater Control Circuit Low
P2689	Fuel Supply Heater Control Circuit High
P268A	Fuel Injector Calibration not Learned/Programmed
P268B	High Pressure Fuel Pump Calibration not Learned/Programmed
P268C	Cylinder 1 Injector Data Incompatible
P268D	Cylinder 2 Injector Data Incompatible
P268E	Cylinder 3 Injector Data Incompatible
P268F	Cylinder 4 Injector Data Incompatible
P2690	Cylinder 5 Injector Data Incompatible
P2691	Cylinder 6 Injector Data Incompatible
P2692	Cylinder 7 Injector Data Incompatible
P2693	Cylinder 8 Injector Data Incompatible
P2694	Cylinder 9 Injector Data Incompatible

P2695	Cylinder 10 Injector Data Incompatible
P2696	Injector Data Incompatible
P2697	Exhaust Aftertreatment Fuel Injector "A" Circuit/Open
P2698	Exhaust Aftertreatment Fuel Injector "A" Performance
P2699	Exhaust Aftertreatment Fuel Injector "A" Circuit Low
P269A	Exhaust Aftertreatment Fuel Injector "A" Circuit High
P269B	Exhaust Aftertreatment Glow Plug Control Circuit/Open
P269C	Exhaust Aftertreatment Glow Plug Control Performance
P269D	Exhaust Aftertreatment Glow Plug Control Circuit Low
P269E	Exhaust Aftertreatment Glow Plug Control Circuit High
P269F	Exhaust Aftertreatment Glow Plug Circuit/Open
P26A0	Exhaust Aftertreatment Glow Plug Performance
P26A1	Exhaust Aftertreatment Glow Plug Circuit Low
P26A2	Exhaust Aftertreatment Glow Plug Circuit High

Code	Definition
P2700	Transmission Friction Element "A" Apply Time Range/Performance
P2701	Transmission Friction Element "B" Apply Time Range/Performance
P2702	Transmission Friction Element "C" Apply Time Range/Performance
P2703	Transmission Friction Element "D" Apply Time Range/Performance
P2704	Transmission Friction Element "E" Apply Time Range/Performance
P2705	Transmission Friction Element "F" Apply Time Range/Performance
P2706	Shift Solenoid "F"
P2707	Shift Solenoid "F" Performance/Stuck Off
P2708	Shift Solenoid "F" Stuck On
P2709	Shift Solenoid "F" Electrical
P2710	Shift Solenoid "F" Intermittent
P2711	Unexpected Mechanical Gear Disengagement
P2712	Hydraulic Power Unit Leakage
P2713	Pressure Control Solenoid "D"
P2714	Pressure Control Solenoid "D" Performance/Stuck Off
P2715	Pressure Control Solenoid "D" Stuck On
P2716	Pressure Control Solenoid "D" Electrical
P2717	Pressure Control Solenoid "D" Intermittent
P2718	Pressure Control Solenoid "D" Control Circuit/Open
P2719	Pressure Control Solenoid "D" Control Circuit Range/Performance
P2720	Pressure Control Solenoid "D" Control Circuit Low

P2721	Pressure Control Solenoid "D" Control Circuit High
P2722	Pressure Control Solenoid "E"
P2723	Pressure Control Solenoid "E" Performance/Stuck Off
P2724	Pressure Control Solenoid "E" Stuck On
P2725	Pressure Control Solenoid "E" Electrical
P2726	Pressure Control Solenoid "E" Intermittent
P2727	Pressure Control Solenoid "E" Control Circuit/Open
P2728	Pressure Control Solenoid "E" Control Circuit Range/Performance
P2729	Pressure Control Solenoid "E" Control Circuit Low
P2730	Pressure Control Solenoid "E" Control Circuit High
P2731	Pressure Control Solenoid "F"
P2732	Pressure Control Solenoid "F" Performance/Stuck Off
P2733	Pressure Control Solenoid "F" Stuck On
P2734	Pressure Control Solenoid "F" Electrical
P2735	Pressure Control Solenoid "F" Intermittent
P2736	Pressure Control Solenoid "F" Control Circuit/Open
P2737	Pressure Control Solenoid "F" Control Circuit Range/Performance
P2738	Pressure Control Solenoid "F" Control Circuit Low
P2739	Pressure Control Solenoid "F" Control Circuit High
P273A	Transmission Friction Element "G" Apply Time Range/Performance
P273B	Transmission Friction Element "H" Apply Time Range/Performance
P2740	Transmission Fluid Temperature Sensor "B" Circuit
P2741	Transmission Fluid Temperature Sensor "B" Circuit
P2742	Transmission Fluid Temperature Sensor "B" Circuit Low

P2743	Transmission Fluid Temperature Sensor "B" Circuit High
P2744	Transmission Fluid Temperature Sensor "B" Circuit Intermittent
P2745	Intermediate Shaft Speed Sensor "B" Circuit
P2746	Intermediate Shaft Speed Sensor "B" Circuit Range/Performance
P2747	Intermediate Shaft Speed Sensor "B" Circuit no Signal
P2748	Intermediate Shaft Speed Sensor "B" Circuit Intermittent
P2749	Intermediate Shaft Speed Sensor "C" Circuit
P2750	Intermediate Shaft Speed Sensor "C" Circuit Range/Performance
P2751	Intermediate Shaft Speed Sensor "C" Circuit no Signal
P2752	Intermediate Shaft Speed Sensor "C" Circuit Intermittent
P2753	Transmission Fluid Cooler Control Circuit/Open
P2754	Transmission Fluid Cooler Control Circuit Low
P2755	Transmission Fluid Cooler Control Circuit High
P2756	Torque Converter Clutch Pressure Control Solenoid
P2757	Torque Converter Clutch Pressure Control Solenoid Control Circuit
P2758	Torque Converter Clutch Pressure Control Solenoid Control Circuit
P2759	Torque Converter Clutch Pressure Control Solenoid Control Circuit
P2760	Torque Converter Clutch Pressure Control Solenoid Control Circuit
P2761	Torque Converter Clutch Pressure Control Solenoid Control
P2762	Torque Converter Clutch Pressure Control Solenoid Control Circuit

P2763	Torque Converter Clutch Pressure Control Solenoid Control Circuit
P2764	Torque Converter Clutch Pressure Control Solenoid Control Circuit
P2765	Input/Turbine Speed Sensor "B" Circuit
P2766	Input/Turbine Speed Sensor "B" Circuit Range/Performance
P2767	Input/Turbine Speed Sensor "B" Circuit no Signal
P2768	Input/Turbine Speed Sensor "B" Circuit Intermittent
P2769	Torque Converter Clutch Circuit Low
P2770	Torque Converter Clutch Circuit High
P2771	Four Wheel Drive (4WD) Low Switch Circuit
P2772	Four Wheel Drive (4WD) Low Switch Circuit Range/Performance
P2773	Four Wheel Drive (4WD) Low Switch Circuit Low
P2774	Four Wheel Drive (4WD) Low Switch Circuit High
P2775	Upshift Switch Circuit Range/Performance
P2776	Upshift Switch Circuit Low
P2777	Upshift Switch Circuit High
P2778	Upshift Switch Circuit Intermittent/Erratic
P2779	Downshift Switch Circuit Range/Performance
P2780	Downshift Switch Circuit Low
P2781	Downshift Switch Circuit High
P2782	Downshift Switch Circuit Intermittent/Erratic
P2783	Torque Converter Temperature Too High
P2784	Input/Turbine Speed Sensor "A"/"B" Correlation
P2785	Clutch Actuator Temperature Too High
P2786	Gear Shift Actuator Temperature Too High
P2787	Clutch Temperature Too High

P2788	Auto Shift Manual Adaptive Learning at Limit
P2789	Clutch "A" Adaptive Learning at Limit
P278A	Kick Down Switch Circuit
P278B	Kick Down Switch Circuit Range/Performance
P278C	Kick Down Switch Circuit Low
P278D	Kick Down Switch Circuit High
P278E	Kick Down Switch Circuit Intermittent/Erratic
P278F	Clutch "B" Adaptive Learning at Limit
P2790	Gate Select Direction Circuit
P2791	Gate Select Direction Circuit Low
P2792	Gate Select Direction Circuit High
P2793	Gear Shift Direction Circuit
P2794	Gear Shift Direction Circuit Low
P2795	Gear Shift Direction Circuit High
P2796	AUXILIARY Transmission Fluid Pump Control Circuit/Open
P2797	AUXILIARY Transmission Fluid Pump Performance
P2798	AUXILIARY Transmission Fluid Pump Control Circuit Low
P2799	AUXILIARY Transmission Fluid Pump Control Circuit High
P279A	Transfer Case Gear High Incorrect Ratio
P279B	Transfer Case Gear Low Incorrect Ratio
P279C	Transfer Case Gear Neutral Incorrect Ratio
P279D	Four Wheel Drive (4WD) Range Signal Circuit
P279E	Four Wheel Drive (4WD) Range Signal Circuit Range/Performance
P279F	Four Wheel Drive (4WD) Range Signal Circuit Low
P27AO	Four Wheel Drive (4WD) Range Signal Circuit High

Code	Definition
P2800	Transmission Range Sensor "B" Circuit (PRNDL Input)
P2801	Transmission Range Sensor "B" Circuit Range/Performance
P2802	Transmission Range Sensor "B" Circuit Low
P2803	Transmission Range Sensor "B" Circuit High
P2804	Transmission Range Sensor "B" Circuit Intermittent
P2805	Transmission Range Sensor "A"/"B" Correlation
P2806	Transmission Range Sensor Alignment
P2807	Pressure Control Solenoid "G"
P2808	Pressure Control Solenoid "G" Performance/Stuck Off
P2809	Pressure Control Solenoid "G" Stuck On
P280A	Transmission Range Sensor "A" Circuit not Learned
P280B	Transmission Range Sensor "B" Circuit not Learned
P2810	Pressure Control Solenoid "G" Electrical
P2811	Pressure Control Solenoid "G" Intermittent
P2812	Pressure Control Solenoid "G" Control Circuit/Open
P2813	Pressure Control Solenoid "G" Control Circuit Range/Performance
P2814	Pressure Control Solenoid "G" Control Circuit Low
P2815	Pressure Control Solenoid "G" Control Circuit High
P2816	Pressure Control Solenoid "H"
P2817	Pressure Control Solenoid "H" Performance/Stuck Off
P2818	Pressure Control Solenoid "H" Stuck On
P2819	Pressure Control Solenoid "H" Electrical
P281A	Pressure Control Solenoid "H" Intermittent
P281B	Pressure Control Solenoid "H" Control Circuit/Open
P281C	Pressure Control Solenoid "H" Control Circuit Range/Performance

P281D	Pressure Control Solenoid "H" Control Circuit Low
P281E	Pressure Control Solenoid "H" Control Circuit High
P281F	Pressure Control Solenoid "J"
P2820	Pressure Control Solenoid "J" Performance/Stuck Off
P2821	Pressure Control Solenoid "J" Stuck On
P2822	Pressure Control Solenoid "J" Electrical
P2823	Pressure Control Solenoid "J" Intermittent
P2824	Pressure Control Solenoid "J" Control Circuit/Open
P2825	Pressure Control Solenoid "J" Control Circuit Range/Performance
P2826	Pressure Control Solenoid "J" Control Circuit Low
P2827	Pressure Control Solenoid "J" Control Circuit High
P2828	Pressure Control Solenoid "K"
P2829	Pressure Control Solenoid "K" Performance/Stuck Off
P282A	Pressure Control Solenoid "K" Stuck On
P282B	Pressure Control Solenoid "K" Electrical
P282C	Pressure Control Solenoid "K" Intermittent
P282D	Pressure Control Solenoid "K" Control Circuit/Open
P282E	Pressure Control Solenoid "K" Control Circuit Range/Performance
P282F	Pressure Control Solenoid "K" Control Circuit Low
P2830	Pressure Control Solenoid "K" Control Circuit High
P2831	Shift Fork "A" Position Circuit
P2832	Shift Fork "A" Position Circuit Range/Performance
P2833	Shift Fork "A" Position Circuit Low
P2834	Shift Fork "A" Position Circuit High
P2835	Shift Fork "A" Position Circuit Intermittent
P2836	Shift Fork "B" Position Circuit

P2837	Shift Fork "B" Position Circuit Range/Performance
P2838	Shift Fork "B" Position Circuit Low
P2839	Shift Fork "B" Position Circuit High
P283A	Shift Fork "B" Position Circuit Intermittent
P283B	Shift Fork "C" Position Circuit
P283C	Shift Fork "C" Position Circuit Range/Performance
P283D	Shift Fork "C" Position Circuit Low
P283E	Shift Fork "C" Position Circuit High
P283F	Shift Fork "C" Position Circuit Intermittent
P2840	Shift Fork "D" Position Circuit
P2841	Shift Fork "D" Position Circuit Range/Performance
P2842	Shift Fork "D" Position Circuit Low
P2843	Shift Fork "D" Position Circuit High
P2844	Shift Fork "D" Position Circuit Intermittent
P2845	Shift Fork "A" Position Sensor Incorrect Neutral Position Indicated
P2846	Shift Fork "B" Position Sensor Incorrect Neutral Position Indicated
P2847	Shift Fork "C" Position Sensor Incorrect Neutral Position Indicated
P2848	Shift Fork "D" Position Sensor Incorrect Neutral Position Indicated
P2849	Shift Fork "A" Stuck
P284A	Shift Fork "B" Stuck
P284B	Shift Fork "C" Stuck
P284C	Shift Fork "D" Stuck
P284D	Shift Fork "A" Unrequested Movement
P284E	Shift Fork "B" Unrequested Movement
P284F	Shift Fork "C" Unrequested Movement

P2850	Shift Fork "D" Unrequested Movement
P2851	Shift Fork Position Sensor "A"/"B" Correlation
P2852	Shift Fork Position Sensor "C"/"D" Correlation
P2853	Clutch "A" Pressure Discharge Performance
P2854	Clutch "B" Pressure Discharge Performance
P2855	Clutch "A" Pressure Charge Performance
P2856	Clutch "B" Pressure Charge Performance
P2857	Clutch "A" Pressure Engagement Performance
P2858	Clutch "B" Pressure Engagement Performance
P2859	Clutch "A" Pressure Disengagement Performance
P285A	Clutch "B" Pressure Disengagement Performance

Code	Definition
P2A00	O2 Sensor Circuit Range/Performance
P2A01	O2 Sensor Circuit Range/Performance
P2A02	O2 Sensor Circuit Range/Performance
P2A03	O2 Sensor Circuit Range/Performance
P2A04	O2 Sensor Circuit Range/Performance
P2A05	O2 Sensor Circuit Range/Performance
P2A06	O2 Sensor Negative Voltage
P2A07	O2 Sensor Negative Voltage
P2A08	O2 Sensor Negative Voltage
P2A09	O2 Sensor Negative Voltage
P2A10	O2 Sensor Negative Voltage
P2A11	O2 Sensor Negative Voltage
P2BA7	NOX Exceedance - Empty Reagent Tank
P2BA8	NOX Exceedance - Interruption of Reagent Dosing Activity
P2BA9	NOX Exceedance - Insufficient Reagent Quality
P2BAA	NOX Exceedance - Low Reagent Consumption
P2BAB	NOX Exceedance - Incorrect EGR Flow
P2BAC	NOX Exceedance - Deactivation of EGR
P2BAD	NOX Exceedance - Root Cause Unknown
P2BAE	NOX Exceedance - NOX control monitoring system
P2BA7	NOX Exceedance - Empty Reagent Tank
P2BA8	NOX Exceedance - Interruption of Reagent Dosing Activity
P2BA9	NOX Exceedance - Insufficient Reagent Quality
P2BAA	NOX Exceedance - Low Reagent Consumption
P2BAB	NOX Exceedance - Incorrect EGR Flow
P2BAC	NOX Exceedance - Deactivation of EGR
P2BAD	NOX Exceedance - Root Cause Unknown

P2BAE

NOX Exceedance - NOX control monitoring system

# P3XXX



Code	Definition
P3000	Manufacturer Controlled DTC Bank 1
P3003	Engine coolant heater relay 1, low output
P3008	Camshaft position (CMP) sensor - signal limit exceeded (VW)
P3019	Battery Block 9 Becomes Weak (Toyota)
P3100	Cylinder 1 High-Pressure Injector Low Side Circuit Open (BMW / MINI)
P316A	Engine Coolant Temperature Signal Stuck High (BMW)
P3190	Poor Engine Power (Toyota)
P3193	Fuel Run Out (Toyota)
P3200	Manufacturer Controlled DTC
P3300	Manufacturer Controlled DTC
P3400	Cylinder Deactivation System
P3401	Cylinder 1 Deactivation/Intake Valve Control Circuit/Open
P3402	Cylinder 1 Deactivation/Intake Valve Control Circuit Performance
P3403	Cylinder 1 Deactivation/Intake Valve Control Circuit Low
P3404	Cylinder 1 Deactivation/Intake Valve Control Circuit High
P3405	Cylinder 1 Exhaust Valve Control Circuit/Open
P3406	Cylinder 1 Exhaust Valve Control Circuit Performance
P3407	Cylinder 1 Exhaust Valve Control Circuit Low
P3408	Cylinder 1 Exhaust Valve Control Circuit High
P3409	Cylinder 2 Deactivation/Intake Valve Control Circuit/Open
P340A	ISO/SAE Reserved
P340B	ISO/SAE Reserved
P340C	ISO/SAE Reserved
P340D	ISO/SAE Reserved
P340E	ISO/SAE Reserved
P340F	ISO/SAE Reserved

P3410	Cylinder 2 Deactivation/Intake Valve Control Circuit Performance
P3411	Cylinder 2 Deactivation/Intake Valve Control Circuit Low
P3412	Cylinder 2 Deactivation/Intake Valve Control Circuit High
P3413	Cylinder 2 Exhaust Valve Control Circuit/Open
P3414	Cylinder 2 Exhaust Valve Control Circuit Performance
P3415	Cylinder 2 Exhaust Valve Control Circuit Low
P3416	Cylinder 2 Exhaust Valve Control Circuit High
P3417	Cylinder 3 Deactivation/Intake Valve Control Circuit/Open
P3418	Cylinder 3 Deactivation/Intake Valve Control Circuit Performance
P3419	Cylinder 3 Deactivation/Intake Valve Control Circuit Low
P341A	ISO/SAE Reserved
P341B	ISO/SAE Reserved
P341C	ISO/SAE Reserved
P341D	ISO/SAE Reserved
P341E	ISO/SAE Reserved
P341F	ISO/SAE Reserved
P3420	Cylinder 3 Deactivation/Intake Valve Control Circuit High
P3421	Cylinder 3 Exhaust Valve Control Circuit/Open
P3422	Cylinder 3 Exhaust Valve Control Circuit Performance
P3423	Cylinder 3 Exhaust Valve Control Circuit Low
P3424	Cylinder 3 Exhaust Valve Control Circuit High
P3425	Cylinder 4 Deactivation/Intake Valve Control Circuit/Open
P3426	Cylinder 4 Deactivation/Intake Valve Control Circuit Performance
P3427	Cylinder 4 Deactivation/Intake Valve Control Circuit Low
P3428	Cylinder 4 Deactivation/Intake Valve Control Circuit High
P3429	Cylinder 4 Exhaust Valve Control Circuit/Open
P342A	ISO/SAE Reserved
P342B	ISO/SAE Reserved

P342C	ISO/SAE Reserved
P342D	ISO/SAE Reserved
P342E	ISO/SAE Reserved
P342F	ISO/SAE Reserved
P3430	Cylinder 4 Exhaust Valve Control Circuit Performance
P3431	Cylinder 4 Exhaust Valve Control Circuit Low
P3432	Cylinder 4 Exhaust Valve Control Circuit High
P3433	Cylinder 5 Deactivation/Intake Valve Control Circuit/Open
P3434	Cylinder 5 Deactivation/Intake Valve Control Circuit Performance
P3435	Cylinder 5 Deactivation/Intake Valve Control Circuit Low
P3436	Cylinder 5 Deactivation/Intake Valve Control Circuit High
P3437	Cylinder 5 Exhaust Valve Control Circuit/Open
P3438	Cylinder 5 Exhaust Valve Control Circuit Performance
P3439	Cylinder 5 Exhaust Valve Control Circuit Low
P343A	ISO/SAE Reserved
P343B	ISO/SAE Reserved
P343C	ISO/SAE Reserved
P343D	ISO/SAE Reserved
P343E	ISO/SAE Reserved
P343F	ISO/SAE Reserved
P3440	Cylinder 5 Exhaust Valve Control Circuit High
P3441	Cylinder 6 Deactivation/Intake Valve Control Circuit/Open
P3442	Cylinder 6 Deactivation/Intake Valve Control Circuit Performance
P3443	Cylinder 6 Deactivation/Intake Valve Control Circuit Low
P3444	Cylinder 6 Deactivation/Intake Valve Control Circuit High
P3445	Cylinder 6 Exhaust Valve Control Circuit/Open
P3446	Cylinder 6 Exhaust Valve Control Circuit Performance
P3447	Cylinder 6 Exhaust Valve Control Circuit Low
P3448	Cylinder 6 Exhaust Valve Control Circuit High

P3449	Cylinder 7 Deactivation/Intake Valve Control Circuit/Open
P344A	ISO/SAE Reserved
P344B	ISO/SAE Reserved
P344C	ISO/SAE Reserved
P344D	ISO/SAE Reserved
P344E	ISO/SAE Reserved
P344F	ISO/SAE Reserved
P3450	Cylinder 7 Deactivation/Intake Valve Control Circuit Performance
P3451	Cylinder 7 Deactivation/Intake Valve Control Circuit Low
P3452	Cylinder 7 Deactivation/Intake Valve Control Circuit High
P3453	Cylinder 7 Exhaust Valve Control Circuit/Open
P3454	Cylinder 7 Exhaust Valve Control Circuit Performance
P3455	Cylinder 7 Exhaust Valve Control Circuit Low
P3456	Cylinder 7 Exhaust Valve Control Circuit High
P3457	Cylinder 8 Deactivation/Intake Valve Control Circuit/Open
P3458	Cylinder 8 Deactivation/Intake Valve Control Circuit Performance
P3459	Cylinder 8 Deactivation/Intake Valve Control Circuit Low
P345A	ISO/SAE Reserved
P345B	ISO/SAE Reserved
P345C	ISO/SAE Reserved
P345D	ISO/SAE Reserved
P345E	ISO/SAE Reserved
P345F	ISO/SAE Reserved
P3460	Cylinder 8 Deactivation/Intake Valve Control Circuit High
P3461	Cylinder 8 Exhaust Valve Control Circuit/Open
P3462	Cylinder 8 Exhaust Valve Control Circuit Performance
P3463	Cylinder 8 Exhaust Valve Control Circuit Low
P3464	Cylinder 8 Exhaust Valve Control Circuit High
P3465	Cylinder 9 Deactivation/Intake Valve Control Circuit/Open

P3466	Cylinder 9 Deactivation/Intake Valve Control Circuit Performance
P3467	Cylinder 9 Deactivation/Intake Valve Control Circuit Low
P3468	Cylinder 9 Deactivation/Intake Valve Control Circuit High
P3469	Cylinder 9 Exhaust Valve Control Circuit/Open
P346A	ISO/SAE Reserved
P346B	ISO/SAE Reserved
P346C	ISO/SAE Reserved
P346D	ISO/SAE Reserved
P346E	ISO/SAE Reserved
P346F	ISO/SAE Reserved
P3470	Cylinder 9 Exhaust Valve Control Circuit Performance
P3471	Cylinder 9 Exhaust Valve Control Circuit Low
P3472	Cylinder 9 Exhaust Valve Control Circuit High
P3473	Cylinder 10 Deactivation/Intake Valve Control Circuit/Open
P3474	Cylinder 10 Deactivation/Intake Valve Control Circuit Performance
P3475	Cylinder 10 Deactivation/Intake Valve Control Circuit Low
P3476	Cylinder 10 Deactivation/Intake Valve Control Circuit High
P3477	Cylinder 10 Exhaust Valve Control Circuit/Open
P3478	Cylinder 10 Exhaust Valve Control Circuit Performance
P3479	Cylinder 10 Exhaust Valve Control Circuit Low
P347A	ISO/SAE Reserved
P347B	ISO/SAE Reserved
P347C	ISO/SAE Reserved
P347D	ISO/SAE Reserved
P347E	ISO/SAE Reserved
P347F	ISO/SAE Reserved
P3480	Cylinder 10 Exhaust Valve Control Circuit High
P3481	Cylinder 11 Deactivation/Intake Valve Control Circuit/Open

P3482	Cylinder 11 Deactivation/Intake Valve Control Circuit Performance
P3483	Cylinder 11 Deactivation/Intake Valve Control Circuit Low
P3484	Cylinder 11 Deactivation/Intake Valve Control Circuit High
P3485	Cylinder 11 Exhaust Valve Control Circuit/Open
P3486	Cylinder 11 Exhaust Valve Control Circuit Performance
P3487	Cylinder 11 Exhaust Valve Control Circuit Low
P3488	Cylinder 11 Exhaust Valve Control Circuit High
P3489	Cylinder 12 Deactivation/Intake Valve Control Circuit/Open
P348A	ISO/SAE Reserved
P348B	ISO/SAE Reserved
P348C	ISO/SAE Reserved
P348D	ISO/SAE Reserved
P348E	ISO/SAE Reserved
P348F	ISO/SAE Reserved
P3490	Cylinder 12 Deactivation/Intake Valve Control Circuit Performance
P3491	Cylinder 12 Deactivation/Intake Valve Control Circuit Low
P3492	Cylinder 12 Deactivation/Intake Valve Control Circuit High
P3493	Cylinder 12 Exhaust Valve Control Circuit/Open
P3494	Cylinder 12 Exhaust Valve Control Circuit Performance
P3495	Cylinder 12 Exhaust Valve Control Circuit Low
P3496	Cylinder 12 Exhaust Valve Control Circuit High
P3497	Cylinder Deactivation System Bank 2
P3498	ISO/SAE Reserved
P3500	ISO/SAE Reserved
P3600	ISO/SAE Reserved
P3700	ISO/SAE Reserved
P3800	ISO/SAE Reserved
P3900	ISO/SAE Reserved
P3A00	ISO/SAE Reserved

P3B00	ISO/SAE Reserved
P3C00	ISO/SAE Reserved
P3D00	ISO/SAE Reserved
P3E00	ISO/SAE Reserved
P3F00	ISO/SAE Reserved

# BXXXXX



Codes	Definition
B0000	ISO/SAE Reserved / Vehicle speed information circuit malfunction (Chevy, GM)
B0001	Driver Frontal Stage 1 Deployment Control (Subfault)
B0002	Driver Frontal Stage 2 Deployment Control (Subfault)
B0003	Driver Frontal Stage 3 Deployment Control (Subfault)
B0004	Driver Knee Bolster Deployment Control (Subfault)
B0005	Collapsible Steering Column Deployment Control (Subfault)
B0006	ISO/SAE Reserved
B0007	ISO/SAE Reserved
B0008	ISO/SAE Reserved
B0009	ISO/SAE Reserved
B000A	ISO/SAE Reserved
B000B	ISO/SAE Reserved
B000C	ISO/SAE Reserved
B000D	ISO/SAE Reserved
B000E	ISO/SAE Reserved
B000F	ISO/SAE Reserved
B0010	Passenger Frontal Stage 1 Deployment Control (Subfault)
B0011	Passenger Frontal Stage 2 Deployment Control (Subfault)
B0012	Passenger Frontal Stage 3 Deployment Control (Subfault)
B0013	Passenger Knee Bolster Deployment Control (Subfault)
B0014	ISO/SAE Reserved
B0015	ISO/SAE Reserved
B0016	ISO/SAE Reserved
B0017	ISO/SAE Reserved
B0018	ISO/SAE Reserved
B0019	ISO/SAE Reserved
B001A	ISO/SAE Reserved
B001B	ISO/SAE Reserved

B001C	ISO/SAE Reserved
B001D	ISO/SAE Reserved
B001E	ISO/SAE Reserved
B001F	ISO/SAE Reserved
B0020	Left Side Airbag Deployment Control (Subfault)
B0021	Left Curtain Deployment Control 1 (Subfault)
B0022	Left Curtain Deployment Control 2 (Subfault)
B0023	ISO/SAE Reserved
B0024	ISO/SAE Reserved
B0025	ISO/SAE Reserved
B0026	ISO/SAE Reserved
B0027	ISO/SAE Reserved
B0028	Right Side Airbag Deployment Control (Subfault)
B0029	Right Curtain Deployment Control 1 (Subfault)
B002A	Right Curtain Deployment Control 2 (Subfault)
B002B	ISO/SAE Reserved
B002C	ISO/SAE Reserved
B002D	ISO/SAE Reserved
B002E	ISO/SAE Reserved
B002F	ISO/SAE Reserved
B0030	Second Row Left Side Airbag Deployment Control (Subfault)
B0031	Second Row Left Frontal Stage 1 Deployment Control (Subfault)
B0032	Second Row Left Frontal Stage 2 Deployment Control (Subfault)
B0033	Second Row Left Frontal Stage 3 Deployment Control (Subfault)
B0034	ISO/SAE Reserved
B0035	ISO/SAE Reserved
B0036	ISO/SAE Reserved

B0037	ISO/SAE Reserved
B0038	Second Row Right Side Airbag Deployment Control (Subfault)
B0039	Second Row Right Frontal Stage 1 Deployment Control (Subfault)
B003A	Second Row Right Frontal Stage 2 Deployment Control (Subfault)
B003B	Second Row Right Frontal Stage 3 Deployment Control (Subfault)
B003C	ISO/SAE Reserved
B003D	ISO/SAE Reserved
B003E	ISO/SAE Reserved
B003F	ISO/SAE Reserved
B0040	Third Row Left Side Airbag Deployment Control (Subfault)
B0041	Third Row Left Frontal Stage 1 Deployment Control (Subfault)
B0042	Third Row Left Frontal Stage 2 Deployment Control (Subfault)
B0043	Third Row Left Frontal Stage 3 Deployment Control (Subfault)
B0044	ISO/SAE Reserved
B0045	ISO/SAE Reserved
B0046	ISO/SAE Reserved
B0047	ISO/SAE Reserved
B0048	Third Row Right Side Airbag Deployment Control (Subfault)
B0049	Third Row Right Frontal Stage 1 Deployment Control (Subfault)
B004A	Third Row Right Frontal Stage 2 Deployment Control (Subfault)
B004B	Third Row Right Frontal Stage 3 Deployment Control (Subfault)

B004C	ISO/SAE Reserved
B004D	ISO/SAE Reserved
B004E	ISO/SAE Reserved
B004F	ISO/SAE Reserved
B0050	Driver Seatbelt Sensor (Subfault)
B0051	First Row Center Seatbelt Sensor (Subfault)
B0052	Passenger Seatbelt Sensor (Subfault)
B0053	Second Row Left Seatbelt Sensor (Subfault)
B0054	Second Row Center Seatbelt Sensor (Subfault)
B0055	Second Row Right Seatbelt Sensor (Subfault)
B0056	Third Row Left Seatbelt Sensor (Subfault)
B0057	Third Row Center Seatbelt Sensor (Subfault)
B0058	Third Row Right Seatbelt Sensor (Subfault)
B0059	ISO/SAE Reserved
B005A	ISO/SAE Reserved
B005B	ISO/SAE Reserved
B005C	ISO/SAE Reserved
B005D	ISO/SAE Reserved
B005E	ISO/SAE Reserved
B005F	ISO/SAE Reserved
B0060	Driver Seatbelt Tension Sensor (Subfault)
B0061	Passenger Seatbelt Tension Sensor (Subfault)
B0062	ISO/SAE Reserved
B0063	ISO/SAE Reserved
B0064	ISO/SAE Reserved
B0065	ISO/SAE Reserved
B0066	ISO/SAE Reserved
B0067	ISO/SAE Reserved
B0068	ISO/SAE Reserved
B0069	ISO/SAE Reserved

B006A	ISO/SAE Reserved
B006B	ISO/SAE Reserved
B006C	ISO/SAE Reserved
B006D	ISO/SAE Reserved
B006E	ISO/SAE Reserved
B006F	ISO/SAE Reserved
B0070	Driver Seatbelt Pretensioner "A" Deployment Control (Subfault)
B0071	First Row Center Seatbelt Pretensioner Deployment Control (Subfault)
B0072	Passenger Seatbelt Pretensioner "A" Deployment Control (Subfault)
B0073	Second Row Left Seatbelt Pretensioner Deployment Control (Subfault)
B0074	Second Row Center Seatbelt Pretensioner Deployment Control (Subfault)
B0075	Second Row Right Seatbelt Pretensioner Deployment Control (Subfault)
B0076	Third Row Left Seatbelt Pretensioner Deployment Control (Subfault)
B0077	Third Row Center Seatbelt Pretensioner Deployment Control (Subfault)
B0078	Third Row Right Seatbelt Pretensioner Deployment Control (Subfault)
B0079	Driver Seatbelt Pretensioner "B" Deployment Control (Subfault)
B007A	Passenger Seatbelt Pretensioner "B" Deployment Control (Subfault)
B007B	Second Row Left Seatbelt Pretensioner "B" Deployment Control (Subfault)
B007C	Second Row Right Seatbelt Pretensioner "B" Deployment Control (Subfault)

B007D	Second Row Center Seatbelt Pretensioner "B" Deployment Control (Subfault)
B007E	Driver Seatbelt Pretensioner "C" Deployment Control (Subfault)
B007F	Passenger Seatbelt Pretensioner "C" Deployment Control (Subfault)
B0080	Driver Seatbelt Load Limiter Deployment Control (Subfault)
B0081	First Row Center Seatbelt Load Limiter Deployment Control (Subfault)
B0082	Passenger Seatbelt Load Limiter Deployment Control (Subfault)
B0083	Second Row Left Seatbelt Load Limiter Deployment Control (Subfault)
B0084	Second Row Center Seatbelt Load Limiter Deployment Control (Subfault)
B0085	Second Row Right Seatbelt Load Limiter Deployment Control (Subfault)
B0086	Third Row Left Seatbelt Load Limiter Deployment Control (Subfault)
B0087	Third Row Center Seatbelt Load Limiter Deployment Control (Subfault)
B0088	Third Row Right Seatbelt Load Limiter Deployment Control (Subfault)
B0089	ISO/SAE Reserved
B008A	ISO/SAE Reserved
B008B	ISO/SAE Reserved
B008C	ISO/SAE Reserved
B008D	ISO/SAE Reserved
B008E	ISO/SAE Reserved
B008F	ISO/SAE Reserved
B0090	Left Frontal Restraints Sensor (Subfault)

B0091	Left Side Restraints Sensor 1 (Subfault)
B0092	Left Side Restraints Sensor 2 (Subfault)
B0093	Left Side Restraints Sensor 3 (Subfault)
B0094	Center Frontal Restraints Sensor (Subfault)
B0095	Right Frontal Restraints Sensor (Subfault)
B0096	Right Side Restraints Sensor 1 (Subfault)
B0097	Right Side Restraints Sensor 2 (Subfault)
B0098	Right Side Restraints Sensor 3 (Subfault)
B0099	Roll Over Sensor (Subfault)
B009A	Left Side Restraints Sensor 4 (Subfault)
B009B	Left Side Restraints Sensor 5 (Subfault)
B009C	Left Side Restraints Sensor 6 (Subfault)
B009D	Right Side Restraints Sensor 4 (Subfault)
B009E	Right Side Restraints Sensor 5 (Subfault)
B009F	Right Side Restraints Sensor 6 (Subfault)
B00A0	Occupant Classification System (Subfault)
B00A1	Occupant Position System (Subfault)
B00A2	ISO/SAE Reserved
B00A3	ISO/SAE Reserved
B00A4	ISO/SAE Reserved
B00A5	ISO/SAE Reserved
B00A6	ISO/SAE Reserved
B00A7	ISO/SAE Reserved
B00A8	ISO/SAE Reserved
B00A9	ISO/SAE Reserved
B00AA	ISO/SAE Reserved
B00AB	ISO/SAE Reserved
B00AC	ISO/SAE Reserved
B00AD	ISO/SAE Reserved
B00AE	ISO/SAE Reserved

B00AF	ISO/SAE Reserved
B00B0	Driver Seat Occupant Classification Sensor "A" (Subfault)
B00B1	Driver Seat Occupant Classification Sensor "B" (Subfault)
B00B2	Driver Seat Occupant Classification Sensor "C" (Subfault)
B00B3	Driver Seat Occupant Classification Sensor "D" (Subfault)
B00B4	Driver Seat Occupant Classification Sensor "E" (Subfault)
B00B5	Driver Seat Track Position Restraints Sensor (Subfault)
B00B6	Driver Seat Recline Position Restraints Sensor (Subfault)
B00B7	Driver Seat Occupant Position Sensor "A" (Subfault)
B00B8	Driver Seat Occupant Position Sensor "B" (Subfault)
B00B9	Driver Seat Occupant Position Sensor "C" (Subfault)
B00BA	Driver Seat Occupant Position Sensor "D" (Subfault)
B00BB	Driver Seat Occupant Position Sensor "E" (Subfault)
B00BC	ISO/SAE Reserved
B00BD	ISO/SAE Reserved
B00BE	ISO/SAE Reserved
B00BF	ISO/SAE Reserved
B00C0	Passenger Seat Occupant Classification Sensor "A" (Subfault)
B00C1	Passenger Seat Occupant Classification Sensor "B" (Subfault)
B00C2	Passenger Seat Occupant Classification Sensor "C" (Subfault)
B00C3	Passenger Seat Occupant Classification Sensor "D" (Subfault)
B00C4	Passenger Seat Occupant Classification Sensor "E" (Subfault)
B00C5	Passenger Seat Track Position Restraints Sensor (Subfault)
B00C6	Passenger Seat Recline Position Restraints Sensor (Subfault)
B00C7	Passenger Seat Occupant Position Sensor "A" (Subfault)

B00C8	Passenger Seat Occupant Position Sensor "B" (Subfault)
B00C9	Passenger Seat Occupant Position Sensor "C" (Subfault)
B00CA	Passenger Seat Occupant Position Sensor "D" (Subfault)
B00CB	Passenger Seat Occupant Position Sensor "E" (Subfault)
B00CC	ISO/SAE Reserved
B00CD	ISO/SAE Reserved
B00CE	ISO/SAE Reserved
B00CF	ISO/SAE Reserved
B00D0	Driver Seatbelt Indicator (Subfault)
B00D1	Passenger Seatbelt Indicator (Subfault)
B00D2	Restraint System Malfunction Indicator 1 (Subfault)
B00D3	Restraint System Malfunction Indicator 2 (Subfault)
B00D4	Restraint System Malfunction Audible Indicator (Subfault)
B00D5	Restraint System Passenger Disable Indicator (Subfault)
B00D6	ISO/SAE Reserved
B00D7	ISO/SAE Reserved
B00D8	ISO/SAE Reserved
B00D9	ISO/SAE Reserved
B00DA	ISO/SAE Reserved
B00DB	ISO/SAE Reserved
B00DC	ISO/SAE Reserved
B00DD	ISO/SAE Reserved
B00DE	ISO/SAE Reserved
B00DF	Passenger Restraints Disable Switch (Subfault)
B00E0	Third Row Left Seatbelt Pretensioner "B" Deployment Control (Subfault)
B00E1	Third Row Right Seatbelt Pretensioner "B" Deployment Control (Subfault)
B00E2	Third Row Center Seatbelt Pretensioner "B" Deployment Control (Subfault)

B00E3	Second Row Left Seatbelt Pretensioner "C" Deployment Control (Subfault)
B00E4	Second Row Right Seatbelt Pretensioner "C" Deployment Control (Subfault)
B00E5	Second Row Center Seatbelt Pretensioner "C" Deployment Control (Subfault)
B00E6	Third Row Right Seatbelt Pretensioner "C" Deployment Control (Subfault)
B00E7	Third Row Left Seatbelt Pretensioner "C" Deployment Control (Subfault)
B00E8	Third Row Center Seatbelt Pretensioner "C" Deployment Control (Subfault)
B00E9	ISO/SAE Reserved
B0101	Left Front Impact Sensor
B0500	Passenger Temperature Control "Warmer" Switch - Circuit Range/Performance

Code	Definition
B1000	Manufacturer Controlled DTC
B1039	Audio [+] output #2 (RF) circuit open
B1200	Climate Control Pushbutton Circuit Failure
B1201	Fuel Sender Circuit Failure
B1202	Fuel Sender Circuit Open
B1203	Fuel Sender Circuit Short To Battery
B1204	Fuel Sender Circuit Short To Ground
B1205	EIC Switch-1 Assembly Circuit Failure
B1206	EIC Switch-1 Assembly Circuit Open
B1207	EIC Switch-1 Assembly Circuit Short To Battery
B1208	EIC Switch-1 Assembly Circuit Short To Ground
B1209	EIC Switch-2 Assembly Circuit Failure
B1210	EIC Switch-2 Assembly Circuit Open
B1211	EIC Switch-2 Assembly Circuit Short To Battery
B1212	EIC Switch-2 Assembly Circuit Short To Ground
B1213	Anti-Theft Number of Programmed Keys Is Below Minimum
B1214	Running Board Lamp Circuit Failure
B1215	Running Board Lamp Circuit Short to Battery
B1216	Emergency & Road Side Assistance Switch Circuit Short to Ground
B1217	Horn Relay Coil Circuit Failure
B1218	Horn Relay Coil Circuit Short to Vbatt
B1219	Fuel Tank Pressure Sensor Circuit Failure
B1220	Fuel Tank Pressure Sensor Circuit Open
B1222	Fuel Temperature Sensor #1 Circuit Failure
B1223	Fuel Temperature Sensor #1 Circuit Open

B1224	Fuel Temperature Sensor #1 Circuit Short to Battery
B1225	Fuel Temperature Sensor #1 Circuit Short to Ground
B1226	Fuel Temperature Sensor #2 Circuit Failure
B1227	Fuel Temperature Sensor #2 Circuit Open
B1228	Fuel Temperature Sensor #2 Circuit Short to Battery
B1229	Fuel Temperature Sensor #2 Circuit Short to Ground
B1231	Longitudinal Acceleration Threshold Exceeded
B1232	See Manufacturer
B1233	Glass Break Sensor Failure
B1234	Mirror Switch Invalid Code
B1235	Window Feedback Failure
B1236	Window Feedback Loss of Signal
B1237	Window Feedback Out of Range
B1238	Over Temperature Fault
B1239	Air Flow Blend Door Driver Circuit Failure
B1240	Wiper Washer Rear Pump Relay Circuit Failure
B1241	Wiper Washer Rear Pump Relay Circuit Short to Battery
B1242	Air Flow Recirculation Door Driver Circuit Failure
B1243	Express Window Down Switch Circuit Short to Battery
B1244	Wiper Rear Motor Run Relay Circuit Failure
B1245	Wiper Rear Motor Run Relay Circuit Short to Battery
B1246	Dim Panel Potentiometer Switch Circuit Failure
B1247	Panel Dim Switch Circuit Open
B1248	Passenger's Seatback Autoglide Rearward Switch Circuit Short to Ground
B1249	Blend Door Failure
B1250	Air Temperature Internal Sensor Circuit Failure
B1251	Air Temperature Internal Sensor Circuit Open

B1252	Air Temperature Internal Sensor Circuit Short To Battery
B1253	Air Temperature Internal Sensor Circuit Short To Ground
B1254	Air Temperature External Sensor Circuit Failure
B1255	Air Temperature External Sensor Circuit Open
B1256	Air Temperature External Sensor Circuit Short To Battery
B1257	Air Temperature External Sensor Circuit Short To Ground
B1258	Solar Radiation Sensor Circuit Failure
B1259	Solar Radiation Sensor Circuit Open
B1260	Solar Radiation Sensor Circuit Short To Battery
B1261	Solar Radiation Sensor Circuit Short To Ground
B1262	Servo Motor Defrost Circuit Failure
B1263	Servo Motor Vent Circuit Failure
B1264	Servo Motor Foot Circuit Failure
B1265	Servo Motor Coolair Bypass Circuit Failure
B1266	Servo Motor Airintake Left Circuit Failure
B1267	Servo Motor Airintake Right Circuit Failure
B1268	Servo Motor Potentiometer Defrost Circuit Failure
B1269	Servo Motor Potentiometer Defrost Circuit Open
B1270	Servo Motor Potentiometer Defrost Circuit Short To Battery
B1271	Servo Motor Potentiometer Defrost Circuit Short To Ground
B1272	Servo Motor Potentiometer Vent Circuit Failure
B1273	Servo Motor Potentiometer Vent Circuit Open
B1274	Servo Motor Potentiometer Vent Circuit Short To Battery
B1275	Servo Motor Potentiometer Vent Circuit Short To Ground
B1276	Servo Motor Potentiometer Foot Circuit Failure
B1277	Servo Motor Potentiometer Foot Circuit Open

B1278	Servo Motor Potentiometer Foot Circuit Short To Battery
B1279	Servo Motor Potentiometer Foot Circuit Short To Ground
B1280	Servo Motor Potentiometer Coolair Circuit Failure
B1281	Servo Motor Potentiometer Coolair Circuit Open
B1282	Servo Motor Potentiometer Coolair Circuit Short To Battery
B1283	Servo Motor Potentiometer Coolair Circuit Short To Ground
B1284	Servo Motor Potentiometer Airintake Left Circuit Failure
B1285	Servo Motor Potentiometer Airintake Left Circuit Open
B1286	Servo Motor Potentiometer Airintake Left Circuit Short To Battery
B1287	Servo Motor Potentiometer Airintake Left Circuit Short To Ground
B1288	Servo Motor Potentiometer Airintake Right Circuit Failure
B1289	Servo Motor Potentiometer Airintake Right Circuit Open
B1290	Servo Motor Potentiometer Airintake Right Circuit Short To Battery
B1291	Servo Motor Potentiometer Airintake Right Circuit Short To Ground
B1292	Battery Power Relay Circuit Failure
B1293	Battery Power Relay Circuit Open
B1294	Battery Power Relay Circuit Short To Battery
B1295	Battery Power Relay Circuit Short To Ground
B1296	Power Supply Sensor Circuit Failure
B1297	Power Supply Sensor Circuit Open
B1298	Power Supply Sensor Circuit Short To Battery
B1299	Power Supply Sensor Circuit Short To Ground
B1300	Power Door Lock Circuit Failure
B1301	Power Door Lock Circuit Open
B1302	Accessory Delay Relay Coil Circuit Failure

B1303	Accessory Delay Relay Coil Circuit Open
B1304	Accessory Delay Relay Coil Circuit Short To Battery
B1305	Accessory Delay Relay Coil Circuit Short To Ground
B1306	Oil Level Switch Circuit Open
B1307	Oil Level Switch Circuit Short To Battery
B1308	Oil Level Switch Circuit Short To Ground
B1309	Power Door Lock Circuit Short To Ground
B1310	Power Door Unlock Circuit Failure
B1311	Power Door Unlock Circuit Open
B1312	Lamp Headlamp Input Circuit Short To Battery
B1313	Battery Saver Relay Coil Circuit Failure
B1314	Battery Saver Relay Coil Circuit Open
B1315	Battery Saver Relay Coil Circuit Short To Battery
B1316	Battery Saver Relay Coil Circuit Short To Ground
B1317	Battery Voltage High
B1318	Battery Voltage Low
B1319	Driver Door Ajar Circuit Failure
B1320	Driver Door Ajar Circuit Open
B1321	Driver Door Ajar Circuit Short To Battery
B1322	Driver Door Ajar Circuit Short To Ground
B1323	Door Ajar Lamp Circuit Failure
B1324	Door Ajar Lamp Circuit Open
B1325	Door Ajar Lamp Circuit Short To Battery
B1326	Door Ajar Lamp Circuit Short To Ground
B1327	Passenger Door Ajar Circuit Failure
B1328	Passenger Door Ajar Circuit Open
B1329	Passenger Door Ajar Circuit Short To Battery
B1330	Passenger Door Ajar Circuit Short To Ground

B1331	Decklid Ajar Rear Door Circuit Failure
B1332	Decklid Ajar Rear Door Circuit Open
B1333	Decklid Ajar Rear Door Circuit Short To Battery
B1334	Decklid Ajar Rear Door Circuit Short To Ground
B1335	Door Ajar RR Circuit Failure
B1336	Door Ajar RR Circuit Open
B1337	Door Ajar RR Circuit Short To Battery
B1338	Door Ajar RR Circuit Short To Ground
B1339	Chime Input Request Circuit Short To Battery
B1340	Chime Input Request Circuit Short To Ground
B1341	Power Door Unlock Circuit Short To Ground
B1342	ECU Is Defective
B1343	Heated Backlite Input Circuit Failure
B1344	Heated Backlite Input Circuit Open
B1345	Heated Backlite Input Circuit Short To Ground
B1346	Heated Backlite Input Circuit Short To Battery
B1347	Heated Backlite Relay Circuit Failure
B1348	Heated Backlite Relay Circuit Open
B1349	Heated Backlite Relay Short To Battery
B1350	Heated Backlite Relay Short To Ground
B1351	Ignition Key-In Circuit Short To Battery
B1352	Ignition Key-In Circuit Failure
B1353	Ignition Key-In Circuit Open
B1354	Ignition Key-In Circuit Short To Ground
B1355	Ignition Run Circuit Failure
B1356	Ignition Run Circuit Open
B1357	Ignition Run Circuit Short To Battery
B1358	Ignition Run Circuit Short To Ground

B1359	Ignition Run/Acc Circuit Failure
B1360	Ignition Run/Acc Circuit Open
B1361	Ignition Run/Acc Circuit Short To Battery
B1362	Ignition Run/Acc Circuit Short To Ground
B1363	Ignition Start Circuit Failure
B1364	Ignition Start Circuit Open
B1365	Ignition Start Circuit Short To Battery
B1366	Ignition Start Circuit Short To Ground
B1367	Ignition Tach Circuit Failure
B1368	Ignition Tach Circuit Open
B1369	Ignition Tach Circuit Short To Battery
B1370	Ignition Tach Circuit Short To Ground
B1371	Illuminated Entry Relay Circuit Failure
B1372	Illuminated Entry Relay Circuit Open
B1373	Illuminated Entry Relay Short To Battery
B1374	Illuminated Entry Relay Short To Ground
B1375	Oil Change Lamp Circuit Open
B1376	Oil Change Lamp Circuit Short To Battery
B1377	Oil Change Lamp Circuit Failure
B1378	Oil Change Lamp Circuit Short To Ground
B1379	Oil Change Reset Button Circuit Short To Ground
B1380	Oil Change Reset Button Circuit Failure
B1381	Oil Change Reset Button Circuit Open
B1382	Oil Change Reset Button Circuit Short To Battery
B1383	Oil Level Lamp Circuit Short To Battery
B1384	Oil Level Lamp Circuit Failure
B1385	Oil Level Lamp Circuit Open
B1386	Oil Level Lamp Circuit Short To Ground

B1387	Oil Temperature Sensor Circuit Open
B1388	Oil Temperature Sensor Circuit Short To Battery
B1389	Oil Temperature Sensor Circuit Failure
B1390	Oil Temperature Sensor Circuit Short To Ground
B1391	Oil Level Switch Circuit Failure
B1392	Power Door Memory Lock Relay Circuit Failure
B1393	Power Door Memory Lock Relay Circuit Open
B1394	Power Door Memory Lock Relay Circuit Short To Battery
B1395	Power Door Memory Lock Relay Circuit Short To Ground
B1396	Power Door Lock Circuit Short To Battery
B1397	Power Door Unlock Circuit Short To Battery
B1398	Driver Power Window One Touch Window Relay Circuit Failure
B1399	Driver Power Window One Touch Window Relay Circuit Open
B1400	Driver Power Window One Touch Window Relay Circuit Short To Battery
B1401	Driver Power Window One Touch Window Relay Circuit Short To Ground
B1402	Driver Power Window Down Switch Circuit Failure
B1403	Driver Power Window Up Switch Circuit Failure
B1404	Driver Power Window Down Circuit Open
B1405	Driver Power Window Down Circuit Short To Battery
B1406	Driver Power Window Down Circuit Short To Ground
B1407	Driver Power Window Up Circuit Open
B1408	Driver Power Window Up Circuit Short To Battery
B1409	Driver Power Window Up Circuit Short To Ground
B1410	Driver Power Window Motor Circuit Failure
B1411	Driver Power Window Motor Circuit Open

B1412	Driver Power Window Motor Circuit Short To Battery
B1413	Driver Power Window Motor Circuit Short To Ground
B1414	Power Window LR Motor Circuit Failure
B1415	Power Window LR Motor Circuit Open
B1416	Power Window LR Motor Circuit Short To Battery
B1417	Power Window LR Motor Circuit Short To Ground
B1418	Passenger Power Window Motor Circuit Failure
B1419	Passenger Power Window Motor Circuit Open
B1420	Passenger Power Window Motor Circuit Short To Battery
B1421	Passenger Power Window Motor Circuit Short To Ground
B1422	Power Window RR Motor Circuit Failure
B1423	Power Window RR Motor Circuit Open
B1424	Power Window RR Motor Circuit Short To Battery
B1425	Power Window RR Motor Circuit Short To Ground
B1426	Lamp Seat Belt Circuit Short To Battery
B1427	Lamp Seat Belt Circuit Open
B1428	Lamp Seat Belt Circuit Failure
B1429	Lamp Seat Belt Circuit Short To Ground
B1430	Seat Belt Switch Circuit Short To Ground
B1431	Wiper Brake/Run Relay Circuit Failure
B1432	Wiper Brake/Run Relay Circuit Short To Battery
B1433	Wiper Brake/Run Relay Circuit Short To Ground
B1434	Wiper Hi/Low Speed Relay Coil Circuit Failure
B1435	Wiper Hi/Low Speed Relay Coil Circuit Open
B1436	Wiper Hi/Low Speed Relay Coil Circuit Short To Battery
B1437	Wiper Hi/Low Speed Relay Coil Circuit Short To Ground
B1438	Wiper Mode Select Switch Circuit Failure
B1439	Wiper Mode Select Switch Circuit Open

B1440	Wiper Mode Select Switch Circuit Short To Battery
B1441	Wiper Mode Select Switch Circuit Short To Ground
B1442	Door Handle Switch Circuit Failure
B1443	Door Handle Switch Circuit Open
B1444	Door Handle Switch Circuit Short To Battery
B1445	Door Handle Switch Circuit Short To Ground
B1446	Wiper Park Sense Circuit Failure
B1447	Wiper Park Sense Circuit Open
B1448	Wiper Park Sense Circuit Short To Battery
B1449	Wiper Park Sense Circuit Short To Ground
B1450	Wiper Wash/Delay Switch Circuit Failure
B1451	Wiper Wash/Delay Switch Circuit Open
B1452	Wiper Wash/Delay Switch Circuit Short To Battery
B1453	Wiper Wash/Delay Switch Circuit Short To Ground
B1454	Wiper Washer Fluid Lamp Circuit Failure
B1455	Wiper Washer Fluid Lamp Circuit Open
B1456	Wiper Washer Fluid Lamp Circuit Short To Battery
B1457	Wiper Washer Fluid Lamp Circuit Short To Ground
B1458	Wiper Washer Pump Motor Relay Circuit Failure
B1459	Wiper Washer Pump Motor Relay Coil Circuit Open
B1460	Wiper Washer Pump Motor Relay Coil Circuit Short To Battery
B1461	Wiper Washer Pump Motor Relay Coil Circuit Short To Ground
B1462	Seat Belt Switch Circuit Failure
B1463	Seat Belt Switch Circuit Open
B1464	Seat Belt Switch Circuit Short To Battery
B1465	Wiper Brake/Run Relay Circuit Open

B1466	Wiper Hi/Low Speed Not Switching
B1467	Wiper Hi/Low Speed Circuit Motor Short To Battery
B1468	Chime Input Request Circuit Failure
B1469	Chime Input Request Circuit Open
B1470	Lamp Headlamp Input Circuit Failure
B1471	Lamp Headlamp Input Circuit Open
B1472	Lamp Headlamp Input Circuit Short To Ground
B1473	Wiper Low Speed Circuit Motor Failure
B1474	Battery Saver Power Relay Circuit Short To Battery
B1475	Accessory Delay Relay Contact Short To Battery
B1476	Wiper High Speed Circuit Motor Failure
B1477	Wiper Hi/Low Circuit Motor Short To Ground
B1478	Power Window One Touch Up/Down Activated Simultaneously
B1479	Wiper Washer Fluid Level Sensor Circuit Failure
B1480	Wiper Washer Fluid Level Sensor Circuit Open
B1481	Wiper Washer Fluid Level Sensor Circuit Short To Battery
B1482	Wiper Washer Fluid Level Sensor Circuit Short To Ground
B1483	Brake Pedal Input Circuit Failure
B1484	Brake Pedal Input Open Circuit
B1485	Brake Pedal Input Circuit Battery Short
B1486	Brake Pedal Input Circuit Ground Short
B1487	Door Handle Right Front Circuit Failure
B1488	Door Handle Right Front Circuit Open
B1489	Door Handle Right Front Short To Battery
B1490	Door Handle Right Front Short To Ground
B1491	Ignition Cylinder Sensor Circuit Failure
B1492	Ignition Cylinder Sensor Open Circuit

B1493	Ignition Cylinder Sensor Battery Short
B1494	Ignition Cylinder Sensor Ground Short
B1495	Decklid Punch-Out Sensor Circuit Failure
B1496	Decklid Punch-Out Sensor Open Circuit
B1497	Decklid Punch-Out Sensor Battery Short
B1498	Decklid Punch-Out Sensor Ground Short
B1499	Lamp Turn Signal Left Circuit Failure
B1500	Lamp Turn Signal Left Circuit Open
B1501	Lamp Turn Signal Left Circuit Short To Battery
B1502	Lamp Turn Signal Left Circuit Short To Ground
B1503	Lamp Turn Signal Right Circuit Failure
B1504	Lamp Turn Signal Right Circuit Open
B1505	Lamp Turn Signal Right Circuit Short To Battery
B1506	Lamp Turn Signal Right Circuit Short To Ground
B1507	Flash To Pass Switch Circuit Failure
B1508	Flash To Pass Switch Circuit Open
B1509	Flash To Pass Switch Circuit Short To Battery
B1510	Flash To Pass Switch Circuit Short To Ground
B1511	Driver Door Handle Circuit Failure
B1512	Driver Door Handle Circuit Open
B1513	Driver Door Handle Circuit Short To Battery
B1514	Driver Door Handle Circuit Short To Ground
B1515	Seat Driver Occupied Switch Circuit Failure
B1516	Seat Driver Occupied Switch Circuit Open
B1517	Seat Driver Occupied Switch Circuit Short To Battery
B1518	Seat Driver Occupied Switch Circuit Short To Ground
B1519	Hood Switch Circuit Failure
B1520	Hood Switch Circuit Open

B1521	Hood Switch Circuit Short To Battery
B1522	Hood Switch Circuit Short To Ground
B1523	Keyless Entry Circuit Failure
B1524	Keyless Entry Circuit Open
B1525	Keyless Entry Circuit Short To Battery
B1526	Keyless Entry Circuit Short To Ground
B1527	Memory Set Switch Circuit Failure
B1528	Memory Set Switch Circuit Open
B1529	Memory Set Switch Circuit Short To Battery
B1530	Memory Set Switch Circuit Short To Ground
B1531	Memory 1 Switch Circuit Failure
B1532	Memory 1 Switch Circuit Open
B1533	Memory 1 Switch Circuit Short To Battery
B1534	Memory 1 Switch Circuit Short To Ground
B1535	Memory 2 Switch Circuit Failure
B1536	Memory 2 Switch Circuit Open
B1537	Memory 2 Switch Circuit Short To Battery
B1538	Memory 2 Switch Circuit Short To Ground
B1539	Mirror Driver Switch Assembly Circuit Failure
B1540	Mirror Driver Switch Assembly Circuit Open
B1541	Mirror Driver Switch Assembly Circuit Short To Battery
B1542	Mirror Driver Switch Assembly Circuit Short To Ground
B1543	Seat Direction Switch Assembly Circuit Failure
B1544	Seat Direction Switch Assembly Circuit Open
B1545	Seat Direction Switch Assembly Circuit Short To Battery
B1546	Seat Direction Switch Assembly Circuit Short To Ground
B1547	Power Window Master Circuit Failure
B1548	Power Window Master Circuit Open

B1549	Power Window Master Circuit Short To Battery
B1550	Power Window Master Circuit Short To Ground
B1551	Decklid Release Circuit Failure
B1552	Decklid Release Circuit Open
B1553	Decklid Release Circuit Short To Battery
B1554	Decklid Release Circuit Short To Ground
B1555	Ignition Run/Start Circuit Failure
B1556	Ignition Run/Start Circuit Open
B1557	Ignition Run/Start Circuit Short To Battery
B1558	Ignition Run/Start Circuit Short To Ground
B1559	Door Lock Cylinder Circuit Failure
B1560	Door Lock Cylinder Circuit Open
B1561	Door Lock Cylinder Circuit Short To Battery
B1562	Door Lock Cylinder Circuit Short To Ground
B1563	Door Ajar Circuit Failure
B1564	Door Ajar Circuit Open
B1565	Door Ajar Circuit Short To Battery
B1566	Door Ajar Circuit Short To Ground
B1567	Lamp Headlamp High-Beam Circuit Failure
B1568	Lamp Headlamp High-Beam Circuit Open
B1569	Lamp Headlamp High-Beam Circuit Short To Battery
B1570	Lamp Headlamp High-Beam Circuit Short To Ground
B1571	Door Ajar LR Circuit Failure
B1572	Door Ajar LR Circuit Open
B1573	Door Ajar LR Circuit Short To Battery
B1574	Door Ajar LR Circuit Short To Ground
B1575	Lamp Park Input Circuit Failure
B1576	Lamp Park Input Circuit Open

B1577	Lamp Park Input Circuit Short To Battery
B1578	Lamp Park Input Circuit Short To Ground
B1579	Dim Panel Increase Input Circuit Failure
B1580	Dim Panel Increase Input Circuit Open
B1581	Dim Panel Increase Input Circuit Short To Battery
B1582	Dim Panel Increase Input Circuit Short To Ground
B1583	Dim Panel Decrease Input Circuit Failure
B1584	Dim Panel Decrease Input Circuit Open
B1585	Dim Panel Decrease Input Circuit Short To Battery
B1586	Dim Panel Decrease Input Circuit Short To Ground
B1587	Autolamp Delay Increase Circuit Failure
B1588	Autolamp Delay Increase Circuit Open
B1589	Autolamp Delay Increase Circuit Short To Battery
B1590	Autolamp Delay Increase Circuit Short To Ground
B1591	Autolamp Delay Decrease Circuit Failure
B1592	Autolamp Delay Decrease Circuit Open
B1593	Autolamp Delay Decrease Circuit Short To Battery
B1594	Autolamp Delay Decrease Circuit Short To Ground
B1595	Ignition Switch Illegal Input Code
B1596	Service Continuous Codes
B1597	Driver's Seat Seatback Autoglide Forward Switch Circuit Short to Ground
B1598	Driver's Seat Seatback Autoglide Rearward Switch Circuit Short to Ground
B1599	Passenger's Seatback Autoglide Forward Switch Circuit Short to Ground
B1600	PATS Ignition Key Transponder Signal Is Not Received
B1601	PATS Received Incorrect Key-Code From Ignition Key Transponder

B1602	PATS Received Invalid Format Of Key-Code From Ignition Key Transponder
B1603	Lamp Anti-Theft Indicator Circuit Failure
B1604	Lamp Anti-Theft Indicator Circuit Open
B1605	Lamp Anti-Theft Indicator Circuit Short To Battery
B1606	Lamp Anti-Theft Indicator Circuit Short To Ground
B1607	Illuminated Entry Input Circuit Failure
B1608	Illuminated Entry Input Open Circuit
B1609	Illuminated Entry Input Short Circuit To Battery
B1610	Illuminated Entry Input Short Circuit To Ground
B1611	Wiper Rear Mode Select Switch Circuit Failure
B1612	Wiper Rear Mode Select Switch Circuit Open
B1613	Wiper Rear Mode Select Switch Circuit Short To Battery
B1614	Wiper Rear Mode Select Switch Circuit Short To Ground
B1615	Wiper Rear Disable Switch Circuit Failure
B1616	Wiper Rear Disable Switch Circuit Open
B1617	Wiper Rear Disable Switch Circuit Short To Battery
B1618	Wiper Rear Disable Switch Circuit Short To Ground
B1619	Wiper Rear Low Limit Input Circuit Failure
B1620	Wiper Rear Low Limit Input Circuit Open
B1621	Wiper Rear Low Limit Input Circuit Short To Battery
B1622	Wiper Rear Low Limit Input Circuit Short To Ground
B1623	Lamp Keypad Output Circuit Failure
B1624	Lamp Keypad Output Open Circuit
B1625	Lamp Keypad Output Short Circuit To Battery
B1626	Lamp Keypad Output Short Circuit To Ground
B1627	PRNDL Reverse Input Circuit Failure
B1628	PRNDL Reverse Input Open Circuit

B1629	PRNDL Reverse Input Short To Battery
B1630	PRNDL Reverse Input Short Circuit To Ground
B1631	Mirror Driver Left Circuit Failure
B1632	Mirror Driver Left Circuit Open
B1633	Mirror Driver Left Circuit Short To Battery
B1634	Mirror Driver Left Circuit Short To Ground
B1635	Mirror Driver Right Circuit Failure
B1636	Mirror Driver Right Circuit Open
B1637	Mirror Driver Right Circuit Short To Battery
B1638	Mirror Driver Right Short To Ground
B1639	Mirror Passenger Left Circuit Failure
B1640	Mirror Passenger Left Circuit Open
B1641	Mirror Passenger Left Circuit Short To Battery
B1642	Mirror Passenger Left Circuit Short To Ground
B1643	Mirror Passenger Right Circuit Failure
B1644	Mirror Passenger Right Circuit Open
B1645	Mirror Passenger Right Circuit Short To Battery
B1646	Mirror Passenger Right Circuit Short To Ground
B1647	Seat Driver Recline Forward Circuit Failure
B1648	Seat Driver Recline Forward Circuit Open
B1649	Seat Driver Recline Forward Circuit Short To Battery
B1650	Seat Driver Recline Forward Circuit Short To Ground
B1651	Seat Driver Recline Backward Circuit Failure
B1652	Seat Driver Recline Backward Circuit Open
B1653	Seat Driver Recline Backward Circuit Short To Battery
B1654	Seat Driver Recline Backward Circuit Short To Ground
B1655	Seat Driver Rear Up Circuit Failure
B1656	Seat Driver Rear Up Circuit Open

B1657	Seat Driver Rear Up Circuit Short To Battery
B1658	Seat Driver Rear Up Circuit Short To Ground
B1659	Seat Driver Front Up Circuit Failure
B1660	Seat Driver Front Up Circuit Open
B1661	Seat Driver Front Up Circuit Short To Battery
B1662	Seat Driver Front Up Circuit Short To Ground
B1663	Seat Driver Front Up/Down Motor Stalled
B1664	Seat Driver Rear Up/Down Motor Stalled
B1665	Seat Driver Forward/Backward Motor Stalled
B1666	Seat Driver Recline Motor Stalled
B1667	Mirror Driver Up/Down Motor Stalled
B1668	Mirror Driver Right/Left Motor Stalled
B1669	Mirror Passenger Up/Down Motor Stalled
B1670	Mirror Passenger Right/Left Motor Stalled
B1671	Battery Module Voltage Out Of Range
B1672	Seat Driver Occupied Input Circuit Failure
B1673	Seat Driver Occupied Input Circuit Open
B1674	Seat Driver Occupied Input Circuit Short To Battery
B1675	Seat Driver Occupied Input Circuit Short To Ground
B1676	Battery Pack Voltage Out Of Range
B1677	Alarm Panic Input Circuit Failure
B1678	Alarm Panic Input Circuit Open
B1679	Alarm Panic Input Circuit Short To Battery
B1680	Alarm Panic Input Circuit Short To Ground
B1681	PATS Transceiver Module Signal Is Not Received
B1682	PATS Is Disabled (Check Link Between PATS And Transponder)
B1683	Mirror Driver/Passenger Switch Circuit Failure

B1684	Mirror Driver/Passenger Switch Circuit Open
B1685	Lamp Dome Input Circuit Failure
B1686	Lamp Dome Input Circuit Open
B1687	Lamp Dome Input Circuit Short To Battery
B1688	Lamp Dome Input Circuit Short To Ground
B1689	Autolamp Delay Circuit Failure
B1690	Autolamp Delay Circuit Open
B1691	Autolamp Delay Circuit Short To Battery
B1692	Autolamp Delay Circuit Short To Ground
B1693	Autolamp On Circuit Failure
B1694	Autolamp On Circuit Open
B1695	Autolamp On Circuit Short To Battery
B1696	Autolamp On Circuit Short To Ground
B1697	Mirror Driver/Passenger Switch Circuit Short To Battery
B1698	Mirror Driver/Passenger Switch Circuit Short To Ground
B1699	Passenger's Seat Occupied Switch Circuit Short to Ground
B1700	Passenger's Seatbelt Tension Reducer Circuit Short to Ground
B1701	Seat Driver Recline Forward Switch Circuit Failure
B1702	Seat Driver Recline Forward Switch Circuit Open
B1703	Seat Driver Recline Forward Switch Circuit Short To Battery
B1704	Seat Driver Recline Forward Switch Circuit Short To Ground
B1705	Seat Driver Recline Rearward Switch Circuit Failure
B1706	Seat Driver Recline Rearward Switch Circuit Open
B1707	Seat Driver Recline Rearward Switch Circuit Short To Battery
B1708	Seat Driver Recline Rearward Switch Circuit Short To Ground

B1709	Seat Driver Front Up Switch Circuit Failure
B1710	Seat Driver Front Up Switch Circuit Open
B1711	Seat Driver Front Up Switch Circuit Short To Battery
B1712	Seat Driver Front Up Switch Circuit Short To Ground
B1713	Seat Driver Front Down Switch Circuit Failure
B1714	Seat Driver Front Down Switch Circuit Open
B1715	Seat Driver Front Down Switch Circuit Short To Battery
B1716	Seat Driver Front Down Switch Circuit Short To Ground
B1717	Seat Driver Forward Switch Circuit Failure
B1718	Seat Driver Forward Switch Circuit Open
B1719	Seat Driver Forward Switch Circuit Short To Battery
B1720	Seat Driver Forward Switch Circuit Short To Ground
B1721	Seat Driver Rearward Switch Circuit Failure
B1722	Seat Driver Rearward Switch Circuit Open
B1723	Seat Driver Rearward Switch Circuit Short To Battery
B1724	Seat Driver Rearward Switch Circuit Short To Ground
B1725	Seat Driver Rear Up Switch Circuit Failure
B1726	Seat Driver Rear Up Switch Circuit Open
B1727	Seat Driver Rear Up Switch Circuit Short To Battery
B1728	Seat Driver Rear Up Switch Circuit Short To Ground
B1729	Seat Driver Rear Down Switch Circuit Failure
B1730	Seat Driver Rear Down Switch Circuit Open
B1731	Seat Driver Rear Down Switch Circuit Short To Battery
B1732	Seat Driver Rear Down Switch Circuit Short To Ground
B1733	Mirror Driver Vertical Switch Circuit Failure
B1734	Mirror Driver Vertical Switch Circuit Open
B1735	Mirror Driver Vertical Switch Circuit Short To Battery
B1736	Mirror Driver Vertical Switch Circuit Short To Ground

B1737	Mirror Driver Horizontal Switch Circuit Failure
B1738	Mirror Driver Horizontal Switch Circuit Open
B1739	Mirror Driver Horizontal Switch Circuit Short To Battery
B1740	Mirror Driver Horizontal Switch Circuit Short To Ground
B1741	Mirror Passenger Vertical Switch Circuit Failure
B1742	Mirror Passenger Vertical Switch Circuit Open
B1743	Mirror Passenger Vertical Switch Circuit Short To Battery
B1744	Mirror Passenger Vertical Switch Circuit Short To Ground
B1745	Mirror Passenger Horizontal Switch Circuit Failure
B1746	Mirror Passenger Horizontal Switch Circuit Open
B1747	Mirror Passenger Horizontal Switch Circuit Short To Battery
B1748	Mirror Passenger Horizontal Switch Circuit Short To Ground
B1749	Park/Neutral Switch Circuit Failure
B1750	Park/Neutral Switch Circuit Open
B1751	Park/Neutral Switch Circuit Short To Battery
B1752	Park/Neutral Switch Circuit Short To Ground
B1753	Hazard Flash Output Circuit Failure
B1754	Hazard Flash Output Circuit Open
B1755	Hazard Flash Output Circuit Short Battery
B1756	Hazard Flash Output Circuit Short To Ground
B1757	Seat Driver Rear Down Circuit Failure
B1758	Seat Driver Rear Down Circuit Open
B1759	Seat Driver Rear Down Circuit Short To Battery
B1760	Seat Driver Rear Down Circuit Short To Ground
B1761	Seat Driver Front Down Circuit Failure
B1762	Seat Driver Front Down Circuit Open

B1763	Seat Driver Front Down Circuit Short To Battery
B1764	Seat Driver Front Down Circuit Short To Ground
B1765	Seat Driver Forward Circuit Failure
B1766	Seat Driver Forward Circuit Open
B1767	Seat Driver Forward Circuit Short To Battery
B1768	Seat Driver Forward Circuit Short To Ground
B1769	Seat Driver Backward Circuit Failure
B1770	Seat Driver Backward Circuit Open
B1771	Seat Driver Backward Circuit Short To Battery
B1772	Seat Driver Backward Circuit Short To Ground
B1773	Mirror Driver Up Circuit Failure
B1774	Mirror Driver Up Circuit Open
B1775	Mirror Driver Up Circuit Short To Battery
B1776	Mirror Driver Up Circuit Short To Ground
B1777	Driver's Seatbelt Tension Reducer Circuit Short to Ground
B1778	Mirror Driver Down Circuit Failure
B1779	Mirror Driver Down Circuit Open
B1780	Mirror Driver Down Circuit Short To Battery
B1781	Mirror Driver Down Short To Ground
B1782	Mirror Passenger Up Circuit Failure
B1783	Mirror Passenger Up Circuit Open
B1784	Mirror Passenger Up Circuit Short To Battery
B1785	Mirror Passenger Up Circuit Short To Ground
B1786	Mirror Passenger Down Circuit Failure
B1787	Mirror Passenger Down Circuit Open
B1788	Mirror Passenger Down Circuit Short To Battery
B1789	Mirror Passenger Down Circuit Short To Ground
B1790	Autolamp Sensor Input Circuit Failure

B1791	Autolamp Sensor Input Circuit Open
B1792	Autolamp Sensor Input Circuit Short To Battery
B1793	Autolamp Sensor Input Circuit Short To Ground
B1794	Lamp Headlamp Low-Beam Circuit Failure
B1795	Lamp Headlamp Low-Beam Circuit Open
B1796	Lamp Headlamp Low-Beam Circuit Short To Battery
B1797	Lamp Headlamp Low-Beam Circuit Short To Ground
B1798	Lamp Turn Signal Front Output Circuit Failure
B1799	Lamp Turn Signal Front Output Circuit Open
B1800	Lamp Turn Signal Front Output Circuit Short To Battery
B1801	Lamp Turn Signal Front Output Circuit Short To Ground
B1802	Lamp Turn Signal Rear Output Circuit Failure
B1803	Lamp Turn Signal Rear Output Circuit Open
B1804	Lamp Turn Signal Rear Output Circuit Short To Battery
B1805	Lamp Turn Signal Rear Output Circuit Short To Ground
B1806	Lamp Tail Output Circuit Failure
B1807	Lamp Tail Output Circuit Open
B1808	Lamp Tail Output Circuit Short To Battery
B1809	Lamp Tail Output Circuit Short To Ground
B1810	Lamp Backup Switch Input Circuit Failure
B1811	Lamp Backup Switch Input Circuit Open
B1812	Lamp Backup Switch Input Circuit Short To Battery
B1813	Lamp Backup Switch Input Circuit Short To Ground
B1814	Wiper Rear Motor Down Relay Coil Circuit Failure
B1815	Wiper Rear Motor Down Relay Coil Circuit Open
B1816	Wiper Rear Motor Down Relay Coil Circuit Short To Battery
B1817	Wiper Rear Motor Down Relay Coil Circuit Short To Ground
B1818	Wiper Rear Motor Up Relay Coil Circuit Failure

B1819	Wiper Rear Motor Up Relay Coil Circuit Open
B1820	Wiper Rear Motor Up Relay Coil Circuit Short To Battery
B1821	Wiper Rear Motor Up Relay Coil Circuit Short To Ground
B1822	Wiper Rear Park Sense Input Circuit Failure
B1823	Wiper Rear Park Sense Input Circuit Open
B1824	Wiper Rear Park Sense Input Circuit Short To Battery
B1825	Wiper Rear Park Sense Input Circuit Short To Ground
B1826	Wiper Rear High Limit Input Circuit Failure
B1827	Wiper Rear High Limit Input Circuit Open
B1828	Wiper Rear High Limit Input Circuit Short To Battery
B1829	Wiper Rear High Limit Input Circuit Short To Ground
B1830	Door Unlock Disarm Switch Circuit Failure
B1831	Door Unlock Disarm Switch Circuit Open
B1832	Door Unlock Disarm Switch Circuit Short To Battery
B1833	Door Unlock Disarm Switch Circuit Short To Ground
B1834	Door Unlock Disarm Output Circuit Failure
B1835	Door Unlock Disarm Output Circuit Open
B1836	Door Unlock Disarm Output Circuit Short To Battery
B1837	Door Unlock Disarm Output Circuit Short To Ground
B1838	Battery Saver Power Relay Circuit Failure
B1839	Wiper Rear Motor Circuit Failure
B1840	Wiper Front Power Circuit Failure
B1841	Wiper Front Power Circuit Open
B1842	Wiper Front Power Circuit Short To Battery
B1843	Wiper Front Power Circuit Short To Ground
B1844	Phone Handset Circuit Failure
B1845	Ignition Tamper Circuit Failure
B1846	Ignition Tamper Circuit Open

B1847	Ignition Tamper Circuit Short To Battery
B1848	Ignition Tamper Circuit Short To Ground
B1849	Climate Control Temperature Differential Circuit Failure
B1850	Climate Control Temperature Differential Circuit Open
B1851	Climate Control Temperature Differential Circuit Short To Battery
B1852	Climate Control Temperature Differential Circuit Short To Ground
B1853	Climate Control Air Temperature Internal Sensor Motor Circuit Failure
B1854	Climate Control Air Temperature Internal Sensor Motor Circuit Open
B1855	Climate Control Air Temperature Internal Sensor Motor Circuit Short To Battery
B1856	Climate Control Air Temperature Internal Sensor Motor Circuit Short To Ground
B1857	Climate Control On/Off Switch Circuit Failure
B1858	Climate Control A/C Pressure Switch Circuit Failure
B1859	Climate Control A/C Pressure Switch Circuit Open
B1860	Climate Control A/C Pressure Switch Circuit Short To Battery
B1861	Climate Control A/C Pressure Switch Circuit Short To Ground
B1862	Climate Control A/C Lock Sensor Failure
B1863	Ground ECU Circuit Open
B1864	Battery Power Supply ECU Circuit Failure
B1865	Battery Power Supply ECU Circuit Open
B1866	Battery Power Supply ECU Circuit Short To Battery
B1867	Battery Power Supply ECU Circuit Short To Ground

B1868	Lamp Air Bag Warning Indicator Circuit Failure
B1869	Lamp Air Bag Warning Indicator Circuit Open
B1870	Lamp Air Bag Warning Indicator Circuit Short To Battery
B1871	Passenger Air Bag Disable Module Fault
B1872	Turn Signal / Hazard Power Feed Circuit Short To Battery
B1873	Turn Signal / Hazard Power Feed Circuit Short To Ground
B1874	Cellular Phone Handset Not Present
B1875	Turn Signal / Hazard Switch Signal Circuit Failure
B1876	Seatbelt Driver Pretensioner Circuit Failure
B1877	Seatbelt Driver Pretensioner Circuit Open
B1878	Seatbelt Driver Pretensioner Circuit Short to Battery
B1879	Seatbelt Driver Pretensioner Circuit Short to Ground
B1880	Seatbelt Passenger Pretensioner Circuit Failure
B1881	Seatbelt Passenger Pretensioner Circuit Open
B1882	Seatbelt Passenger Pretensioner Circuit Short to Battery
B1883	Seatbelt Passenger Pretensioner Circuit Short to Ground
B1884	PAD Warning Lamp Inoperative
B1885	Seatbelt Driver Pretensioner Circuit Resistance Low on Squib
B1886	Seatbelt Passenger Pretensioner Circuit Resistance Low on Squib
B1887	Air Bag Driver Circuit Resistance Low or Shorted Together
B1888	Air Bag Passenger Circuit Resistance Low or Shorted Together
B1889	Passenger Airbag Disable Module Sensor Obstructed
B1890	PAD Warning Lamp Circuit Short to Battery
B1891	Air Bag Tone Warning Indicator Circuit Short to Battery
B1892	Air Bag Tone Warning Indicator Circuit Failure
B1893	GPS Antenna Open Circuit

B1894	Wiper Rear Motor Speed Sense Circuit Failure
B1895	Driver's / Passenger's Door Ajar Output Circuit Failure
B1896	Driver's / Passenger's Door Ajar Output Circuit Short to Battery
B1897	Horn Switch Circuit Failure
B1898	Chime Input #2 Circuit Short to Ground
B1899	Microphone Input Signal Circuit Open
B1900	Driver Side Airbag Fault
B1901	Air Bag Crash Sensor #1 Feed/Return Circuit Short To Ground
B1902	Air Bag Crash Sensor #1 Ground Circuit Failure
B1903	Air Bag Crash Sensor #1 Ground Circuit Short To Battery
B1904	Air Bag Crash Sensor #2 Feed/Return Circuit Failure
B1905	Air Bag Crash Sensor #2 Feed/Return Circuit Short To Battery
B1906	Air Bag Crash Sensor #2 Feed/Return Circuit Short To Ground
B1907	Air Bag Crash Sensor #2 Ground Circuit Failure
B1908	Air Bag Crash Sensor #2 Ground Circuit Short To Battery
B1909	Air Bag Crash Sensor #2 Ground Circuit Short To Ground
B1910	Air Bag Diagnostic Monitor Ground Circuit Failure
B1911	Air Bag Diagnostic Monitor Ground Circuit Short To Battery
B1912	Air Bag Diagnostic Monitor Ground Circuit Short To Ground
B1913	Air Bag Driver/Passenger Circuit Short To Ground
B1914	Air Bag Crash Sensors #1 / #2 Circuit Short To Ground
B1915	Air Bag Driver Circuit Failure
B1916	Air Bag Driver Circuit Short To Battery
B1917	Air Bag Memory Clear Circuit Failure

B1918	Air Bag Memory Clear Circuit Open
B1919	Air Bag Memory Clear Circuit Short To Battery
B1920	Air Bag Passenger Circuit Failure
B1921	Air Bag Diagnostic Monitor Ground Circuit Open
B1922	Air Bag Safing Sensor Output Circuit Short To Battery
B1923	Air Bag Memory Clear Circuit Short To Ground
B1924	Air Bag Internal Diagnostic Monitor Fault or System Disarm Fault
B1925	Air Bag Passenger Circuit Short To Battery
B1926	Air Bag Passenger Pressure Switch Circuit Failure
B1927	Passenger Side Airbag Fault
B1928	Air Bag Safing Sensor Output Circuit Failure
B1929	Air Bag Safing Sensor Output Circuit Open
B1930	Air Bag Safing Sensor Output Circuit Short To Ground
B1931	Air Bag Crash Sensor #1 Feed/Return Circuit Failure
B1932	Air Bag Driver Circuit Open
B1933	Air Bag Passenger Circuit Open
B1934	Air Bag Driver Inflator Circuit Resistance Low on Squib
B1935	Air Bag Passenger Inflator Circuit Resistance Low on Squib
B1936	Air Bag Driver Circuit Short To Ground
B1937	Air Bag Passenger Pressure Switch Circuit Open
B1938	Air Bag Passenger Circuit Short To Ground
B1939	Air Bag Passenger Pressure Switch Circuit Short To Ground
B1941	Air Bag Crash Sensor #1 Feed/Return Circuit Open
B1942	Air Bag Crash Sensor #2 Feed/Return Circuit Open
B1943	Air Bag Crash Sensor #1 Ground Circuit Short To Ground
B1944	Air Bag Crash Sensor #1 Ground Circuit Open
B1945	Air Bag Crash Sensor #2 Ground Circuit Open

B1946	Climate Control A/C Post Evaporator Sensor Circuit Failure
B1947	Climate Control A/C Post Evaporator Sensor Circuit Short To Ground
B1948	Climate Control Water Temperature Sensor Circuit Failure
B1949	Climate Control Water Temperature Sensor Circuit Short To Ground
B1950	Seat Rear Up/Down Potentiometer Feedback Circuit Failure
B1951	Seat Rear Up/Down Potentiometer Feedback Circuit Open
B1952	Seat Rear Up/Down Potentiometer Feedback Circuit Short To Battery
B1953	Seat Rear Up/Down Potentiometer Feedback Circuit Short To Ground
B1954	Seat Front Up/Down Potentiometer Feedback Circuit Failure
B1955	Seat Front Up/Down Potentiometer Feedback Circuit Open
B1956	Seat Front Up/Down Potentiometer Feedback Circuit Short To Battery
B1957	Seat Front Up/Down Potentiometer Feedback Circuit Short To Ground
B1958	Seat Recline Forward/Backward Potentiometer Feedback Circuit Failure
B1959	Seat Recline Forward/Backward Potentiometer Feedback Circuit Open
B1960	Seat Recline Forward/Backward Potentiometer Feedback Circuit Short To Battery
B1961	Seat Recline Forward/Backward Potentiometer Feedback Circuit Short To Ground

B1962	Seat Horizontal Forward/Rearward Potentiometer Feedback Circuit Failure
B1963	Seat Horizontal Forward/Rearward Potentiometer Feedback Circuit Open
B1964	Seat Horizontal Forward/Rearward Potentiometer Feedback Circuit Short To Battery
B1965	Seat Horizontal Forward/Rearward Potentiometer Feedback Circuit Short To Ground
B1966	A/C Post Heater Sensor Circuit Failure
B1967	A/C Post Heater Sensor Circuit Short To Ground
B1968	A/C Water Pump Detection Circuit Failure
B1969	A/C Clutch Magnetic Control Circuit Failure
B1970	Passenger Seatback Forward Switch Circuit Short to Ground
B1971	Passenger Seatback Rearward Switch Circuit Short to Ground
B1972	Passenger Rear Seat Up Switch Circuit Short to Battery
B1973	Passenger Rear Seat Down Switch Circuit Short to Battery
B1974	Passenger's Seat Recline Forward Switch Circuit Short to Battery
B1975	Passenger's Seat Recline Back Switch Circuit Short to Battery
B1976	Passenger's Seat Forward Switch Circuit Short to Battery
B1977	Passenger's Front Seat Up Switch Circuit Short to Battery
B1978	Passenger's Front Seat Down Switch Circuit Short to Battery
B1979	Passenger Seat Rearward Switch Circuit Short to Battery
B1980	Bulb – Outage Condition Detected
B1981	Memory Off Switch Circuit Short to Battery

B1982	Driver's Door Unlock Relay Circuit Failure
B1983	Driver's Door Unlock Relay Circuit Short to Battery
B1984	Seat Switch Lumbar Inflate Circuit Failure
B1985	Seat Switch Lumbar Deflate Circuit Failure
B1986	Driver's Seat Seatback Autoglide Rearward Switch Circuit Failure
B1987	Pedal Forward / Rearward Motor Stalled
B1988	Pedal Position Forward Switch Circuit Short to Battery
B1989	Pedal Position Rearward Switch Circuit Short to Battery
B1990	Pedal Forward / Rearward Potentiometer Feedback Circuit Failure
B1991	Pedal Forward / Rearward Potentiometer Feedback Circuit Short to Battery
B1992	Driver Side, Side mount Airbag Circuit Short to Vbatt
B1993	Driver Side, Side mount Airbag Circuit Short to Ground
B1994	Driver Side, Side mount Airbag Circuit Open
B1995	Driver Side, Side mount Airbag Low resistance on Squib
B1996	Passenger Side, Side mount Airbag Circuit Short to Vbatt
B1997	Passenger Side, Side mount Airbag Circuit Short to Ground
B1998	Passenger Side, Side mount Airbag Circuit Open
B1999	Passenger Side, Side mount Airbag Low resistance on Squib

Code	Definition
B2000	ISO/SAE Reserved
B2097	Compass Module Failure (Ford)
B2100	Door Driver Key Cylinder Switch Failure
B2101	Head Rest Switch Circuit Failure
B2102	Antenna Circuit Short to Ground
B2103	Antenna Not Connected
B2104	Door Passenger Key Cylinder Switch Failure
B2105	Throttle Position Input Out of Range Low
B2106	Throttle Position Input Out of Range High
B2107	Front Wiper Motor Relay Circuit Short to Vbatt
B2108	Trunk Key Cylinder Switch Failure
B2109	Heated Wind Shield Relay Short to Vbatt (changed from Failure 2/6/97)
B2110	Front Wiper Motor Relay Circuit Open (changed from Failure 2/6/97)
B2111	All Door Lock Input Short to Ground
B2112	Door Driver Set Switch Stuck Failure
B2113	Heated Windshield Input Short to Ground
B2114	Front Washer Input Short to Ground
B2115	Rear Washer Input Short to Ground
B2116	Door Driver Reset Switch Stuck Failure
B2117	Driver Side, Side mount Airbag Low capacitance on Squib
B2118	Passenger Side, Side mount Airbag Low capacitance on Squib
B2119	Compressor Failure
B2120	Door Passenger Set Switch Stuck Failure
B2122	Driver Side Satellite Communication Circuit Short to Ground

B2123	Passenger Side Satellite Communication Circuit Short to Ground
B2124	Door Passenger Reset Switch Stuck Failure
B2128	Central Lock Motor Failure
B2129	Central Lock Feedback Failure
B2130	Double Lock Timeout Failure
B2131	Double Lock Feedback Failure
B2132	Dimmer switch Circuit Short to Gnd
B2133	Brake Motor Warning lamp Circuit Failure
B2134	Brake Motor Warning lamp Circuit Short to Vbatt
B2135	Park Brake Applied Warning Lamp Circuit Failure
B2136	Park Brake Applied Warning Lamp Circuit Short To Battery
B2139	Data Mismatch (receive data does not match what was expected)
B2141	NVM Configuration Failure
B2142	NVM TIC Failure
B2143	NVM Memory Failure
B2144	NVM Alarm Data Failure
B2145	NVM RF HR Failure
B2146	Seat Recline Motor Position Out of Range
B2148	PWM Input Circuit Failure
B2149	Seat Front Vertical Motor Position Out of Range
B2150	Power Supply #1 Circuit Short to Ground
B2151	Power Supply #2 Circuit Short to Ground
B2152	Seat Rear Vertical Motor Position Out of Range
B2153	Rear Echo Sensor Circuit Failure
B2154	Front Echo Sensor Circuit Failure
B2155	Seat Horizontal Motor Position Out of Range

B2156	Rear Doppler Sensor Circuit Failure
B2157	Front Doppler Sensor Circuit Failure
B2158	Seat Recline Motor Memory Position Out of Range
B2159	Memory #1 output Short to Ground
B2160	Memory #1 output Short to VBatt
B2161	Seat Front Vertical Motor Memory Position Out of Range
B2162	Data Mismatch #2 (receive data does not match what was expected)
B2163	Clutch Position Fault
B2164	Seat Rear Vertical Motor Memory Position Out of Range
B2165	Gear shift position Fault
B2166	Gear select position Fault
B2167	Seat Horizontal Motor Memory Position Out of Range
B2168	Unable to confirm Unlock Condition
B2169	Unable to confirm lock Condition
B2170	Steering Column Lock Switch Circuit Failure
B2172	Inertia Switch input Circuit Open
B2174	Window Driver Rear Remote Up Switch Short to Battery
B2175	A/C Request Signal Circuit Short to Ground
B2176	Overdrive switch circuit short to Vbatt
B2177	Interior Scanning Sensor Circuit Failure
B2178	Window Driver Rear Remote Down Switch Short to Battery
B2179	Front Wiper Select Switch "A" Short to Ground
B2180	Front Wiper Select Switch "B" Short to Ground
B2181	Front Wiper Select Switch "C" Short to Ground
B2182	Window Passenger Front Remote Up Switch Short to Battery
B2183	Front Wiper Select Switch "H" Short to Ground

B2184	Front Wiper Select Switch "W" Short to Ground
B2185	Rear Wiper Select Switch "D" Short to Ground
B2186	Window Passenger Front Remote Down Switch Short to Battery
B2187	Rear Wiper Select Switch "B" Short to Ground
B2188	Rear Wiper Select Switch "E" Short to Ground
B2190	Window Passenger Rear Remote Up Switch Short to Battery
B2194	Window Passenger Rear Remote Down Switch Short to Battery
B2195	Driver Window Up / Down Power Circuit Short to Ground
B2196	Passenger Window Up / Down Power Circuit Short to Ground
B2197	TV Module Error
B2198	TrafficMaster Module Error
B2199	VICS Module Error
B2200	No Communication to TV Module (No Fitting of TV)
B2201	No Communication With Traffic MasterModule
B2202	No Communication to VICS Module (No Fitting of VICS)
B2203	CD-ROM Error
B2204	GPS Antenna Connection Open or Short
B2205	GPS Receiver Error
B2206	Gyroscope Error
B2207	ECU ROM Checksum Error
B2208	Communication Link to Display and Switch Module Error
B2209	Interior Lamp Override Switch Open Circuit
B2210	Interior Lamp Override Switch Short to Ground
B2211	Low Coolant Lamp Output Circuit Short to Battery
B2214	Window Passenger Front Up Switch Short to Battery

B2215	Window Passenger Front Down Switch Short to Battery
B2219	Window Driver Front Current Feedback Exceeded
B2220	Window Driver Rear Current Feedback Exceeded
B2221	Window Passenger Front Current Feedback Exceeded
B2222	Window Passenger Rear Current Feedback Exceeded
B2223	Mirror Driver Drive Circuit Failure
B2224	Mirror Passenger Drive Circuit Failure
B2225	Front Crash Sensor Mount Fault
B2226	Front Crash Sensor Internal Fault
B2227	Front Crash Sensor Driver Communications Fault
B2228	Air Bag Driver Circuit Short to Ground – Loop #2
B2229	Air Bag Passenger Circuit Short to Ground – Loop #2
B2230	Air Bag Driver Circuit Short to Battery – Loop #2
B2231	Air Bag Passenger Circuit Short to Battery – Loop #2
B2232	Air Bag Driver Circuit Open – Loop #2
B2233	Air Bag passenger Circuit Open – Loop #2
B2234	Air Bag Driver Inflator Circuit Resistance Low on Squib – Loop #2
B2235	Air Bag Passenger Inflator Circuit
B2236	Weak or Defected Electric Vehicle Battery Module Fault
B2237	Vehicle Signal indicating Park While VSS Present
B2238	Power Cable For Power Sliding Door Broken
B2239	Rear Cargo Door Set Switch Stuck (Short to Ground)
B2240	Rear Cargo Door Reset Switch Stuck (Short to Ground)
B2241	Rear Cargo Door Lock Circuit Short to Ground
B2242	Rear Cargo Door Unlock Circuit Open
B2243	Driver Rear Door Ajar Circuit Open
B2244	Driver Sliding Door Ajar Circuit Short to GND

B2245	Passenger Rear Door Ajar Circuit Open
B2246	Passenger Sliding Door Ajar Circuit Short to GND
B2247	EV Battery Pack Temperature Fault
B2248	Heated Windshield Relay Coil Circuit Failure
B2249	Head Lamp Relay Coil Short to Battery
B2250	All Doors Unlock Relay Circuit Failure
B2251	Parklamp Output Relay Driver Circuit Failure
B2252	Parklamp Output Relay Dirver Short to Battery
B2300	Seat Driver Memory Position Error
B2301	Seat Passenger Memory Position Error
B2302	Seat Headrest Feedback Potentiometer Circuit Failure
B2303	Seat Headrest Feedback Potentiometer Circuit Open
B2304	Seat Headrest Feedback Potentiometer Circuit Short to Battery
B2305	Seat Headrest Feedback Potentiometer Circuit Short to Ground
B2306	Seat Headrest Motor Stalled
B2310	Mirror Driver Memory Position Error
B2311	Mirror Passenger Memory Position Error
B2312	Mirror Passenger Horizontal Feedback Potentiometer Circuit Failure
B2313	Mirror Passenger Horizontal Feedback Potentiometer Circuit Open
B2314	Mirror Passenger Horizontal Feedback Potentiometer Circuit Short to Battery
B2315	Mirror Passenger Horizontal Feedback Potentiometer Circuit Short to Ground
B2316	Mirror Passenger Vertical Feedback Potentiometer Circuit Failure

B2317	Mirror Passenger Vertical Feedback Potentiometer Circuit Open
B2318	Mirror Passenger Vertical Feedback Potentiometer Circuit Short to Battery
B2319	Mirror Passenger Vertical Feedback Potentiometer Circuit Short to Ground
B2320	Mirror Driver Horizontal Feedback Potentiometer Circuit Failure
B2321	Mirror Driver Horizontal Feedback Potentiometer Circuit Open
B2322	Mirror Driver Horizontal Feedback Potentiometer Circuit Short to Battery
B2323	Mirror Driver Horizontal Feedback Potentiometer Circuit Short to Ground
B2324	Mirror Driver Vertical Feedback Potentiometer Circuit Failure
B2325	Mirror Driver Vertical Feedback Potentiometer Circuit Open
B2326	Mirror Driver Vertical Feedback Potentiometer Circuit Short to Battery
B2327	Mirror Driver Vertical Feedback Potentiometer Circuit Short to Ground
B2328	Column Reach Feedback Potentiometer Circuit Failure
B2329	Column Reach Feedback Potentiometer Circuit Open
B2330	Column Reach Feedback Potentiometer Circuit Short to Battery
B2331	Column Reach Feedback Potentiometer Circuit Short to Ground
B2332	Column Tilt Feedback Potentiometer Circuit Failure
B2333	Column Tilt Feedback Potentiometer Circuit Open

B2334	Column Tilt Feedback Potentiometer Circuit Short to Battery
B2335	Column Tilt Feedback Potentiometer Circuit Short to Ground
B2336	Mirror Switch Assembly Circuit Failure
B2337	Mirror Switch Assembly Circuit Open
B2338	Mirror Switch Assembly Circuit Short to Battery
B2339	Mirror Switch Assembly Circuit Short to Ground
B2340	Column Reach Motor Stalled
B2341	Column Tilt Motor Stalled
B2342	Seat Switch Reference Voltage Positive Common Open Circuit
B2343	Seat Switch Reference Voltage Positive Common Supply Low Voltage
B2344	Seat Switch Reference Voltage Positive Common Supply Voltage Fault
B2345	Seat Switch Reference Voltage Negative Common Open Circuit
B2346	Mirror Switch Reference Voltage Positive Common Open Circuit
B2347	Mirror Switch Reference Voltage Positive Common Supply Low Voltage
B2348	Mirror Switch Reference Voltage Positive Common Supply Voltage Fault
B2349	Mirror Switch Reference Voltage Negative Common Open Circuit
B2350	Steering Column Switch Circuit Short to Battery
B2351	Steering Column Switch Circuit Failure
B2352	Driver Memory Power Switch Indicator Circuit Short to Battery

B2353	Driver Mirror Power Driver Circuit Short Ground
B2354	Driver Mirror Horizontal / Vertical Feedback Potentiometer Circuit Open
B2355	Passenger Mirror Horizontal / Vertical Feedback Potentiometer Circuit Open
B2357	Driver Window Down Current Sense Low Circuit Failure
B2362	Remote Open/Close signal Circuit Short to Ground
B2363	Optical Sensor System Failure
B2364	Fuel Filler Door Circuit Open
B2365	B-pillar Power Sliding Door Open/Close Switch Input Ckt Short to Gnd
B2366	IP Power Sliding Door Open/Close switch Ckt Short to Gnd
B2367	Power Sliding Door Override Switch Input Ckt Short to Gnd
B2368	Steering Column Switch Circuit Out of Range
B2369	Chime OUTPUT Request Ckt Short to Ground
B2373	LED #1 Circuit Short to Battery
B2374	Power Sliding Detent (Latch) Circuit Failure
B2380	Heater Coolant Temp sensor circuit Short to GND
B2381	Heater Coolant Temp sensor circuit Open
B2384	Audio Reverse Aid Mute Input Ckt Failure
B2385	Audio Navigation Mute Input Ckt Failure
B2401	Audio Tape Deck Mechanism Fault
B2402	Audio CD/DJ Thermal Shutdown Fault
B2403	Audio CD/DJ Internal Fault
B2404	Audio Steering Wheel Switch Circuit Fault
B2405	Audio Single-Disc CD Player Thermal Shutdown Fault
B2406	Audio Single-Disc CD Player Internal Fault
B2416	Climate Control Recirculation Actuator Out of Limits
B2425	Remote Keyless Entry Out of Synchronization

B2426	Passenger Solar Radiation Sensor Circuit Open
B2427	Passenger Solar Radiation Sensor Circuit Short to Ground
B2428	A/C Post Heater Sensor #2 Circuit Failure
B2429	A/C Post Heater Sensor #2 Circuit Short to Ground
B2431	Transponder Programming Failed
B2432	Drivers Seat Belt Buckle Switch Circuit Open
B2433	Drivers Seat Belt Buckle Switch Circuit Short to Battery
B2434	Drivers Seat Belt Buckle Switch Circuit Short to Ground
B2435	Drivers Seat Belt Buckle Switch Resistance out of Range
B2436	Passengers Seat Belt Buckle Switch Circuit Open
B2437	Passengers Seat Belt Buckle Switch Circuit Short to Battery
B2438	Passengers Seat Belt Buckle Switch Circuit Short to Ground
B2439	Passengers Seat Belt Buckle Switch Resistance out of Range
B2440	Passenger Side, Side crash sensor mount fault
B2441	Driver Side, Side crash sensor mount fault
B2442	Intrusion Sensor Fault
B2443	Powertrain Performance Mode Switch Circuit failure
B2444	Driver Side Crash Sensor Internal Fault
B2445	Passenger Side Crash Sensor Internal Fault
B2446	RESCU/VEMS Input Circuit Open
B2447	RESCU/VEMS Input Circuit Short to Battery
B2448	RESCU/VEMS Input Circuit Short to Ground
B2449	Aux Heater Glow Plug Circuit Short to Ground
B2450	Aux Heater Glow Plug Circuit Open
B2451	Aux Heater Fuel Pump Circuit Short to Ground
B2452	Aux Heater Fuel Pump Circuit Open

B2453	Aux Heater Blower Fan Circuit Short to Ground
B2454	Aux Heater Blower Fan Circuit Open
B2455	Aux Heater Blower Faulted
B2456	Aux Heater Coolant Sensor Circuit Short to Ground
B2457	Aux Heater Coolant Sensor Circuit Open
B2458	Aux Heater Overheat Sensor Circuit Short to Ground
B2459	Aux Heater Overheat Sensor Circuit Open
B2460	Aux Heater Flame Sensor Circuit Short to Ground
B2461	Aux Heater Flame Sensor Circuit Open
B2462	Aux Heater Flame Out Fault
B2463	Aux Heater Overheat Fault
B2464	Aux Heater Start Time Exceeded
B2465	Aux Heater Start Counter Overrun/System Locked (same as below ?)
B2466	Aux Heater Overheat Counter Overrun/System Locked
B2467	Aux Heater Cool Down Time Exceeded (may be con to a453-5 )
B2468	Aux Heater Coolant Pump Circuit Short to Ground
B2469	Aux Heater Coolant Pump Circuit Open
B2470	Interior Fan Control Circuit Short to Ground
B2471	Interior Fan Control Circuit Open
B2472	Fog Lamp Switch Failure
B2473	Passenger Door Disarm Switch ckt Short to Ground
B2474	Passenger Door Lock Switch Circuit Shorted to Ground
B2475	Passenger Door Unlock Switch Circuit Shorted to Ground
B2476	RADIO PRESENT SWITCH Ckt Failure
B2477	Module Configuration Failure
B2478	ANTI THEFT INPUT SIGNAL SHORT TO GROUND

B2479	BRAKE PARK SWITCH CIRCUIT SHORT TO GROUND
B2480	LF CORNER LAMP OUTPUT Ckt Short to Battery
B2481	Convertible Top Up/Down switch Fault
B2482	RF CORNER LAMP OUTPUT Ckt Short to Battery
B2483	Enable Signal Open Circuit
B2484	Disable Signal Short to Ground
B2485	LF SIDE REPEATER LAMP OUTPUT Ckt Short to Battery
B2487	RF SIDE REPEATER LAMP OUTPUT Ckt Short to Battery
B2489	UNDERHOOD LAMP OUTPUT CIRCUIT Failure
B2490	UNDERHOOD LAMP OUTPUT CIRCUIT Short to Battery
B2491	RF PARK LAMP OUTPUT CIRCUIT Short to Battery
B2492	Already Programmed (Test Mode DTC Only !!!)
B2493	LF PARK LAMP OUTPUT CIRCUIT Short to Battery
B2494	ANTI THEFT HORN OUTPUT CIRCUIT Short to Batt
B2495	ANTI THEFT HORN OUTPUT CIRCUIT Failure
B2496	ANTI THEFT HORN OUTPUT CIRCUIT Short to Gnd
B2499	COURTESY LAMP OUTPUT Failure
B2500	COURTESY LAMP OUTPUT Ckt Short to Battery
B2501	LF LAMP LOW BEAM CIRCUIT Failure
B2502	LF LAMP LOW BEAM CIRCUIT Short to Battery
B2503	RF LAMP LOW BEAM CIRCUIT Failure
B2504	RF LAMP LOW BEAM CIRCUIT Short to Battery
B2505	LF LAMP HIGH BEAM CIRCUIT Failure
B2506	LF LAMP HIGH BEAM CIRCUIT Short to Battery
B2507	RF LAMP HIGH BEAM CIRCUIT Failure
B2508	RF LAMP HIGH BEAM CIRCUIT Short to Battery
B2509	Rear Fog Lamp Switch Circuit Failure
B2510	Main Blower Motor Relay Circuit Short to Battery

B2511	Horn Output Relay Circuit Short to Battery
B2512	Front Fog Lamp Relay Ckt Short to Battery
B2513	Blower (Fan) Circuit Failure
B2514	Blower (Fan) Circuit Short to Vbatt
B2515	Heater Blower Relay Circuit Failure
B2516	Blower Control Circuit Failure
B2517	Emergency Power Off System Faulted
B2518	Compressor Overtemp Fault
B2519	High Mount Stop Lamp Circuit Failure
B2520	High Mount Stop Lamp Circuit Short to Battery
B2523	License Lamp Circuit Failure
B2524	License Lamp Circuit Short to Battery
B2525	Left Rear Backup Lamp Circuit Failure
B2526	Left Rear Backup Lamp Circuit Short to Battery
B2527	Left Rear Stop lamp Circuit Failure
B2528	Left Rear Stop lamp Circuit Short to Battery
B2529	Left Rear Turn Lamp Circuit Failure
B2530	Left Rear Turn Lamp Circuit Short to Battery
B2531	Right Rear Backup Lamp Circuit Failure
B2532	Right Rear Backup Lamp Circuit Short to Battery
B2533	Right Rear Stop lamp Circuit Failure
B2534	Right Rear Stop lamp Circuit Short to Battery
B2535	Right Rear Turn Lamp Circuit Failure
B2536	Right Rear Turn Lamp Circuit Short to Battery
B2539	Aux A/C Mode Position Reference Circuit Short to Ground
B2540	Aux A/C Mode Position Reference Circuit Short to Battery
B2543	Aux A/C Control Switch Reference Circuit Short to Ground
B2544	Aux A/C Control Switch Reference Circuit Short to Battery

B2545	System Power Relay Circuit Short to Battery
B2546	System Power Relay Circuit Failure
B2550	LAMP DOME OUTPUT Circuit Short to Ground
B2553	Disable Signal Output Circuit Short to Battery
B2554	LAMP DOME OUTPUT Circuit Failure
B2555	LAMP DOME OUTPUT Circuit Short to Battery
B2556	Enable Signal Circuit Short to Battery
B2557	Left Power Sliding Door Open/Close Output Circuit Short to Battery
B2558	Right Power Sliding Door Open/Close Output Circuit Short to Battery
B2559	Aux A/C Blower Motor Relay Circuit Short to Battery
B2560	Aux A/C Blower Motor Relay Circuit Short to Ground
B2561	Aux A/C Blower Speed 1 Circuit Failure
B2562	Aux A/C Blower Speed 1 Circuit Short to Ground
B2563	Aux A/C Blower Speed 2 Circuit Failure
B2564	Aux A/C Blower Speed 2 Circuit Short to Ground
B2565	Right Tail Lamp Circuit Failure
B2566	Right Tail Lamp Circuit Short to Ground
B2567	Reverse Mirror Output Circuit Failure
B2568	Reverse Mirror Output Circuit Short to Ground
B2569	Liftgate Disarm Switch Circuit Short to Ground
B2570	Right Lamp Outage Signal Circuit Short to Ground
B2571	Left Lamp Outage Signal Circuit Short to Ground
B2580	Aux Blower Sense Switch Circuit Failure
B2581	Passenger Seat Occupant Detection Circuit Short To Ground
B2582	Passenger Seat Occupant Detection Circuit Open
B2583	Child Seat Detection Circuit Short to Ground

B2584	Child Seat Detection Circuit Open
B2585	Anti Theft Input Signal Circuit Short To Battery
B2586	Headlamp Mode Select Circuit Failure
B2587	Passenger Seat Occupant Detection Circuit Short To Battery
B2588	Child Seat Detection Circuit Short To Battery
B2589	Unexpected Door Reversal During Close
B2590	Vehicle Park/Speed Signal Circuit Failure
B2591	Detent Signal Missing During Unlatch
B2592	PSD Not Fully Closed (Module Commanded Successfully)
B2593	Power Sliding Door Opened During Module Close Command
B2594	No Movement Detected After an Unlatch During Power Open
B2595	Anti Theft Input Signal Circuit Failure
B2596	Headlamp Aim Output Relay Circuit Short To Battery
B2597	Headlamp Aim Output Relay Circuit Failure
B2598	Headlamp Relay Circuit Failure
B2599	Tailgate Release Open Circuit
B2600	Double Locking Door Motor Frozen
B2601	No Latch Signal Sensed on Closing and Door Reversed
B2602	Missing Latch Signal During Power Sliding Door Unlatch
B2603	PSD Not Fully Closed During Self-Test
B2604	Power Sliding Door On/Off Switch Open Circuit
B2605	Disable Signal Open Circuit
B2606	A/C Temperature Sensor Out of Range
B2796	No Communication In Immobilizer System
B2799	Toyota: Engine Immobiliser System Malfunction GM: Suspension control select switch circuit open

BXXXX

B2AAA	Scanner Communication Incompatibility
B2TAE	Nonsense Code

Code	Definition
B3000	ISO/SAE Reserved
B3004	Right Rear Door Ajar - Circuit High

# CXXXXX



Codes	Definition
C0000	ISO/SAE Reserved
C0001	TCS Control Channel "A" Valve 1 (Subfault)
C0002	TCS Control Channel "A" Valve 2 (Subfault)
C0003	TCS Control Channel "B" Valve 1 (Subfault)
C0004	TCS Control Channel "B" Valve 2 (Subfault)
C0005	ISO/SAE Reserved
C0006	ISO/SAE Reserved
C0007	ISO/SAE Reserved
C0008	ISO/SAE Reserved
C0009	ISO/SAE Reserved
C000A	ISO/SAE Reserved
C000B	ISO/SAE Reserved
C000C	ISO/SAE Reserved
C000D	ISO/SAE Reserved
C000E	ISO/SAE Reserved
C000F	ISO/SAE Reserved
C0010	Left Front Inlet Control (Subfault)
C0011	Left Front Outlet Control (Subfault)
C0012	Left Front Hydraulic Release Too Long (Subfault)
C0013	ISO/SAE Reserved
C0014	Right Front Inlet Control (Subfault)
C0015	Right Front Outlet Control (Subfault)
C0016	Right Front Hydraulic Release Too Long (Subfault)
C0017	ISO/SAE Reserved
C0018	Left Rear Inlet Control (Subfault)
C0019	Left Rear Outlet Control (Subfault)
C001A	Left Rear Hydraulic Release Too Long (Subfault)
C001B	ISO/SAE Reserved
C001C	Right Rear Inlet Control (Subfault)

C001D	Right Rear Outlet Control (Subfault)
C001E	Right Rear Hydraulic Release Too Long (Subfault)
C001F	ISO/SAE Reserved
C0020	ABS Pump Motor Control (Subfault)
C0021	Brake Booster Performance (Subfault)
C0022	Brake Booster Solenoid (Subfault)
C0023	Stop Lamp Control (Subfault)
C0024	ISO/SAE Reserved
C0025	ISO/SAE Reserved
C0026	ISO/SAE Reserved
C0027	ISO/SAE Reserved
C0028	ISO/SAE Reserved
C0029	ISO/SAE Reserved
C002A	ISO/SAE Reserved
C002B	ISO/SAE Reserved
C002C	ISO/SAE Reserved
C002D	ISO/SAE Reserved
C002E	ISO/SAE Reserved
C002F	ISO/SAE Reserved
C0030	Left Front Tone Wheel (Subfault)
C0031	Left Front Wheel Speed Sensor (Subfault)
C0032	Left Front Wheel Speed Sensor Supply (Subfault)
C0033	Right Front Tone Wheel (Subfault)
C0034	Right Front Wheel Speed Sensor (Subfault)
C0035	Right Front Wheel Speed Sensor Supply (Subfault)
C0036	Left Rear Tone Wheel (Subfault)
C0037	Left Rear Wheel Speed Sensor (Subfault)
C0038	Left Rear Wheel Speed Sensor Supply (Subfault)
C0039	Right Rear Tone Wheel (Subfault)
C003A	Right Rear Wheel Speed Sensor (Subfault)

C003B	Right Rear Wheel Speed Sensor Supply (Subfault)
C003C	Rear Tone Wheel (Subfault)
C003D	Rear Wheel Speed Sensor (Subfault)
C003E	Rear Wheel Speed Sensor Supply (Subfault)
C003F	ISO/SAE Reserved
C0040	Brake Pedal Switch "A" (Subfault)
C0041	Brake Pedal Switch "B" (Subfault)
C0042	Brake Pedal Position Sensor "Circuit A" (Subfault)
C0043	Brake Pedal Position Sensor "Circuit B" (Subfault)
C0044	Brake Pressure Sensor "A" (Subfault)
C0045	Brake Pressure Sensor "B" (Subfault)
C0046	Brake Pressure Sensor "A"/"B" (Subfault)
C0047	Brake Booster Pressure Sensor (Subfault)
C0048	Brake Booster Travel Sensor (Subfault)
C0049	Brake Fluid (Subfault)
C004A	Brake Lining Wear Sensor (Subfault)
C004B	ISO/SAE Reserved
C004C	ISO/SAE Reserved
C004D	ISO/SAE Reserved
C004E	ISO/SAE Reserved
C004F	ISO/SAE Reserved
C0050	ISO/SAE Reserved
C0051	Steering Wheel Position Sensor (Subfault)
C0052	Steering Wheel Position Sensor "Signal A" (Subfault)
C0053	Steering Wheel Position Sensor "Signal B" (Subfault)
C0054	Steering Wheel Position Sensor "Signal C" (Subfault)
C0055	Steering Wheel Position Sensor "Signal D" (Subfault)
C0056	ISO/SAE Reserved
C0057	ISO/SAE Reserved
C0058	ISO/SAE Reserved

C0059	ISO/SAE Reserved
C005A	ISO/SAE Reserved
C005B	ISO/SAE Reserved
C005C	ISO/SAE Reserved
C005D	ISO/SAE Reserved
C005E	ISO/SAE Reserved
C005F	ISO/SAE Reserved
C0060	ISO/SAE Reserved
C0061	Lateral Acceleration Sensor (Subfault)
C0062	Longitudinal Acceleration Sensor (Subfault)
C0063	Yaw Rate Sensor (Subfault)
C0064	Roll Rate Sensor
C0065	ISO/SAE Reserved
C0066	ISO/SAE Reserved
C0067	ISO/SAE Reserved
C0068	ISO/SAE Reserved
C0069	Yaw Rate/Longitude Sensors (Subfault)
C006A	Multi-axis Acceleration Sensor (Subfault)
C006B	Stability System Active Too Long (Subfault)
C006C	Stability System
C006D	ISO/SAE Reserved
C006E	ISO/SAE Reserved
C006F	ISO/SAE Reserved
C0070	ISO/SAE Reserved
C0071	2/4 Wheel Drive Status Input (Subfault)
C0072	Brake Temperature Too High (Subfault)
C0073	Delivered Driving Torque (Subfault)
C0074	Requested Driving Torque (Subfault)
C0075	Extended Brake Pedal Travel, output to PCM (Subfault)
C0076	PWM for Traction Control (Subfault)

C0077	Low Tire Pressure (Subfault)
C0078	Tire Diameter (Subfault)
C0079	Variable Effort Steering (Subfault)
C007A	ISO/SAE Reserved
C007B	ISO/SAE Reserved
C007C	ISO/SAE Reserved
C007D	ISO/SAE Reserved
C007E	ISO/SAE Reserved
C007F	ISO/SAE Reserved
C0080	ISO/SAE Reserved
C0081	ABS Malfunction Indicator (Subfault)
C0082	Brake System Malfunction Indicator (Subfault)
C0083	Tire Pressure Monitor Malfunction Indicator (Subfault)
C0084	Traction Active Indicator (Subfault)
C0085	Traction Disable Indicator (Subfault)
C0086	Vehicle Dynamics Indicator (Subfault)
C0087	ISO/SAE Reserved
C0088	ISO/SAE Reserved
C0089	TCS Disable Switch (Subfault)
C008A	TCS Mode Control (Subfault)
C008B	ISO/SAE Reserved
C0100	Rear ABS (both wheels) solenoid/motor #1 circuit malfunction
C0300	Rear Propshaft Speed Sensor

Code	Definition
C1000	Manufacturer Controlled DTC
C1091	Speed Wheel Sensor All Coherency Failure
C1095	ABS Hydraulic Pump Motor Circuit Failure
C1096	ABS Hydraulic Pump Motor Circuit Open
C1097	ABS Hydraulic Pump Motor Circuit Short To Ground
C1098	ABS Hydraulic Pump Motor Circuit Short To Battery
C1100	ABS Pump Switch Circuit Failure
C1101	ABS Hydraulic Valve Circuit Failure
C1102	ABS Acceleration Switch Circuit Failure
C1103	ABS Hydraulic Brake Switch Circuit Failure
C1104	Traction Control Active Lamp – Circuit Short to Battery
C1105	Traction Control Disable Lamp – Circuit Short to Battery
C1106	Traction Control Disable Switch Circuit Short to Battery
C1107	ABS Function Enabled Input Circuit Failure
C1109	Speed Control Actuator Assembly Cable Release Failure
C1110	ABS Power Relay Coil Circuit Failure
C1111	ABS Power Relay Coil Open Circuit
C1112	ABS Power Relay Coil Short Circuit To Ground
C1113	ABS Power Relay Coil Short Circuit To Battery
C1114	ABS Power Relay Output Short Circuit To Ground
C1115	ABS Power Relay Output Short Circuit To Battery
C1116	Starter Motor Circuit Failure
C1117	RPM Input Circuit Failure
C1123	Vehicle Speed Sensor Input Short to Battery
C1124	Input shaft speed signal missing/faulted
C1125	Brake Fluid Level Sensor Input Circuit Failure
C1126	Cruise Control Command Switch Assembly Circuit Failure

C1127	Cruise Control Deactivator Brake Switch Circuit Failure
C1132	Clutch position ckt short to ground
C1133	Clutch position ckt short to battery
C1134	Gear Shift position short to ground
C1135	Gear Shift position short to battery
C1136	Gear Select position short to ground
C1137	ECU is Defective
C1138	Gear Select position short to Battery
C1139	Wheel Speed Sensor Center Tone Ring Missing Tooth Fault
C1140	Hydraulic Base Brake Failure
C1141	Wheel Speed Sensor LF Tone Ring Tooth Missing Fault
C1142	Wheel Speed Sensor RF Tone Ring Tooth Missing Fault
C1143	Wheel Speed Sensor LR Tone Ring Tooth Missing Fault
C1144	Wheel Speed Sensor RR Tone Ring Tooth Missing Fault
C1145	Speed Wheel Sensor RF Input Circuit Failure
C1146	Speed Wheel Sensor RF Circuit Open
C1148	Speed Wheel Sensor RF Coherency Fault
C1149	Hydraulic Fluid Pressure/ Flow Circuit Failure
C1150	Two Speed Rear Axle Input Switch Circuit Short to Vbatt
C1155	Speed Wheel Sensor LF Input Circuit Failure
C1156	Speed Wheel Sensor LF Circuit Open
C1157	Park Brake Actuator Assembly Switch Applied Circuit Failure
C1158	Speed Wheel Sensor LF Coherency Fault
C1159	Hydraulic Fluid Pressure/ Flow Circuit Short to Gnd
C1161	Air Pressure Low Circuit Short to Gnd
C1162	Park Brake Switch # 2 Released Circuit Failure
C1163	Park Brake Switch # 2 Applied Circuit Short to Gnd

C1164	Park Brake Actuator Assembly Switch Circuit Failure
C1165	Speed Wheel Sensor RR Input Circuit Failure
C1166	Speed Wheel Sensor RR Input Open Circuit
C1167	Park Brake Actuator Assembly Switch Released Circuit Short to Gnd
C1168	Speed Wheel Sensor RR Coherency Fault
C1169	ABS Fluid Dumping Exceeds Maximum Timing
C1170	PRNDL Switch Circuit Failure
C1172	Park Brake Switch # 1 Applied Circuit Failure
C1173	Park Brake Switch # 1 Released Circuit Short to Gnd
C1174	Park Brake Switch # 2 Applied Circuit Failure
C1175	Speed Wheel Sensor LR Input Circuit Failure
C1176	Speed Wheel Sensor LR Circuit Open
C1177	Park Brake Actuator Assembly Switch Released Circuit Failure
C1178	Speed Wheel Sensor LR Coherency Fault
C1179	Speed Control Actuator Assembly Cable Slack Failure
C1180	Park Brake Valve Solenoid #1 Sense Input Circuit Failure
C1181	Park Brake Valve Solenoid #1 Sense Input Circuit Short to Ground
C1182	Park Lamp Flash Relay Circuit Failure
C1183	Park Lamp Flash Relay Circuit Short to Battery
C1184	ABS System Is Not Operational
C1185	ABS Power Relay Output Circuit Failure
C1186	ABS Power Relay Output Open Circuit
C1187	Brake Fluid Level Sensor Input Open Circuit
C1188	Brake Fluid Level Sensor Input Short Circuit To Battery
C1189	Brake Fluid Level Sensor Input Short Circuit To Ground
C1190	Speed Wheel Sensor LF Input Short Circuit To Battery

C1191	Speed Wheel Sensor LF Input Short Circuit To Ground
C1192	Speed Wheel Sensor RF Input Short Circuit To Battery
C1193	Speed Wheel Sensor RF Input Short Circuit To Ground
C1194	ABS Outlet Valve Coil LF Circuit Failure
C1195	ABS Outlet Valve Coil LF Circuit Open
C1196	ABS Outlet Valve Coil LF Circuit Short To Battery
C1197	ABS Outlet Valve Coil LF Circuit Short To Ground
C1198	ABS Inlet Valve Coil LF Circuit Failure
C1199	ABS Inlet Valve Coil LF Circuit Open
C1200	ABS Inlet Valve Coil LF Circuit Short To Battery
C1201	ABS Left Front Inlet Valve Coil Circuit Short to Ground (Ford, Lincoln, Mercury, Mazda) Front Traction Control Inlet Valve Control Circuit Low (Dodge, Chrysler, Plymouth, Jeep, FIAT) Right Front Wheel Speed Sensor Invalid Signal (Mitsubishi) Left Front Wheel Speed Sensor Circuit Range or Performance (Chevrolet) Vehicle Stability Control (VSC) Cancelled by Fault in Engine Control Module (Toyota, Scion, Lexus)
C1202	ABS Outlet Valve Coil Rear Circuit Failure
C1203	ABS Outlet Valve Coil Rear Circuit Open
C1204	ABS Outlet Valve Coil Rear Circuit Short To Battery
C1205	ABS Outlet Valve Coil Rear Circuit Short To Ground
C1206	ABS Inlet Valve Coil Rear Circuit Failure
C1207	ABS Inlet Valve Coil Rear Circuit Open
C1208	ABS Inlet Valve Coil Rear Circuit Short To Battery
C1209	ABS Inlet Valve Coil Rear Circuit Short To Ground
C1210	ABS Outlet Valve Coil RF Circuit Failure
C1211	ABS Outlet Valve Coil RF Circuit Open

C1212	ABS Outlet Valve Coil RF Circuit Short To Battery
C1213	ABS Outlet Valve Coil RF Circuit Short To Ground
C1214	ABS Inlet Valve Coil RF Circuit Failure
C1215	ABS Inlet Valve Coil RF Circuit Open
C1216	ABS Inlet Valve Coil RF Circuit Short To Battery
C1217	ABS Inlet Valve Coil RF Circuit Short To Ground
C1218	Lamp ABS Warning Output Circuit Failure
C1219	Lamp ABS Warning Output Circuit Open
C1220	Lamp ABS Warning Output Circuit Short To Battery
C1221	Lamp ABS Warning Output Circuit Short To Ground
C1222	Speed Wheel Mismatch
C1223	Lamp Brake Warning Output Circuit Failure
C1224	Lamp Brake Warning Output Circuit Open
C1225	Lamp Brake Warning Output Circuit Short To Battery
C1226	Lamp Brake Warning Output Circuit Short To Ground
C1227	Speed Wheel Sensor LR Input Short Circuit To Battery
C1228	Speed Wheel Sensor LR Input Short Circuit To Ground
C1229	Speed Wheel Sensor Rear Center Coherency Fault
C1230	Speed Wheel Sensor Rear Center Input Circuit Failure
C1231	Speed Wheel Sensor Rear Center Circuit Open
C1232	Speed Wheel Sensor Rear Center Input Short Circuit To Battery
C1233	Speed Wheel LF Input Signal Missing
C1234	Speed Wheel RF Input Signal Missing
C1235	Speed Wheel RR Input Signal Missing
C1236	Speed Wheel LR Input Signal Missing
C1237	Speed Wheel Rear Input Signal Missing

C1238	ABS Hydraulic Pressure Differential Switch Input Circuit Failure
C1239	ABS Hydraulic Pressure Differential Switch Input Open Circuit
C1240	ABS Hydraulic Pressure Differential Switch Input Short Circuit To Battery
C1241	ABS Hydraulic Pressure Differential Switch Input Short Circuit To Ground
C1242	ABS Outlet Valve Coil LR Circuit Failure
C1243	ABS Outlet Valve Coil LR Circuit Open
C1244	ABS Outlet Valve Coil LR Circuit Short To Battery
C1245	ABS Outlet Valve Coil LR Circuit Short To Ground
C1246	ABS Outlet Valve Coil RR Circuit Failure
C1247	ABS Outlet Valve Coil RR Circuit Open
C1248	ABS Outlet Valve Coil RR Circuit Short To Battery
C1249	ABS Outlet Valve Coil RR Circuit Short To Ground
C1250	ABS Inlet Valve Coil LR Circuit Failure
C1251	ABS Inlet Valve Coil LR Circuit Open
C1252	ABS Inlet Valve Coil LR Circuit Short To Battery
C1253	ABS Inlet Valve Coil LR Circuit Short To Ground
C1254	ABS Inlet Valve Coil RR Circuit Failure
C1255	ABS Inlet Valve Coil RR Circuit Open
C1256	ABS Inlet Valve Coil RR Circuit Short To Battery
C1257	ABS Inlet Valve Coil RR Circuit Short To Ground
C1258	Speed Wheel LF Comparison Failure
C1259	Speed Wheel RF Comparison Failure
C1260	Speed Wheel RR Comparison Failure
C1261	Speed Wheel LR Comparison Failure
C1262	Lamp Warning Relay Circuit Failure

C1263	Lamp Warning Relay Circuit Open
C1264	Lamp Warning Relay Circuit Short To Battery
C1265	Lamp Warning Relay Circuit Short To Ground
C1266	ABS Valve Power Relay Circuit Failure
C1267	ABS Functions Temporarily Disabled
C1268	Motor Relay # 1 Circuit Failure
C1269	Motor Relay # 1 Circuit Short to Battery
C1270	Motor # 1 Input Circuit Failure
C1271	Motor # 1 Input Circuit Short to Gnd
C1272	Motor # 2 Input Circuit Failure
C1273	Motor # 2 Input Circuit Short to Vbat
C1274	Solenoid Relay # 1 Circuit Failure
C1275	Solenoid Relay # 1 Circuit Short to Vbatt
C1276	Park Brake Actuator Assembly Switch Applied Circuit Short to Gnd
C1277	STEERING Wheel Angle 1and 2 Circuit Failure
C1278	STEERING Wheel Angle 1and 2 Signal Faulted
C1279	Yaw Rate Sensor circuit Failure
C1280	Yaw Rate Sensor Signal Fault
C1281	Lateral Accelerometer circuit Failure
C1282	Lateral Accelerometer Signal Fault
C1283	Switch Test Signal Failure
C1284	Oil Pressure Switch Failure
C1285	Booster Solenoid circuit Failure
C1286	Booster Mechanical Failure
C1287	Booster Pedal Force switch circuit Failure
C1288	Pressure Transducer Main / Primary Input Circuit Failure

C1289	Pressure Transducer Redundant / Secondary Input Circuit Failure
C1400	Traction Control Valve RF Circuit Failure
C1401	Traction Control Valve RF Circuit Open
C1402	Malfunction in Front Speed Sensor LH Circuit (Most Manufacturers) Traction Control Valve RF Circuit Short To Ground
C1403	Traction Control Valve RF Circuit Short To Battery
C1404	Traction Control Valve Rear Circuit Failure
C1405	Traction Control Valve Rear Circuit Open
C1406	Traction Control Valve Rear Circuit Short To Ground
C1407	Traction Control Valve Rear Circuit Short To Battery
C1410	Traction Control Valve LF Circuit Failure
C1411	Traction Control Valve LF Circuit Open
C1412	Traction Control Valve LF Circuit Short To Ground
C1413	Traction Control Valve LF Circuit Short To Battery
C1414	Incorrect Module Design Level
C1415	Incorrect Module Configuration
C1416	Damper RF Circuit Short To Battery
C1417	Damper RF Circuit Short to Ground
C1418	Damper RF Circuit Failure
C1419	Damper RF Circuit Open
C1420	Hydraulic Fluid Pressure/ Flow Circuit Short to Vbatt
C1421	Damper LF Circuit Short To Battery (Ford, Jaguar) Open or Short in Master Cylinder Pressure Sensor (Toyota) Rear Differential Clutch Performance (Jeep, Chrysler)
C1422	Damper LF Circuit Short to Ground
C1423	Damper LF Circuit Failure
C1424	Damper LF Circuit Open

C1425	Damper RR Circuit Short to Ground
C1426	Damper RR Circuit Short To Battery
C1427	Damper RR Circuit Open
C1428	Damper RR Circuit Failure
C1429	Input-shaft-speed input circuit failure
C1430	Damper LR Circuit Open
C1431	Damper LR Circuit Short To Battery
C1432	Damper LR Circuit Short to Ground
C1433	Damper LR Circuit Failure
C1435	Accelerometer Rear Circuit Failure
C1436	Accelerometer Rear Circuit Signal Is Not Sensed
C1437	Accelerometer Rear Circuit Short To Ground
C1438	Accelerometer Rear Circuit Short To Battery
C1439	Vehicle Acceleration EEC-IV Circuit Failure
C1440	Pressure Transducer Main / Primary signal Faulted
C1441	Steering Phase A Circuit Signal Is Not Sensed
C1442	Steering Phase B Circuit Signal Is Not Sensed
C1443	Steering Phase A Circuit Short To Ground
C1444	Steering Phase B Circuit Short To Ground
C1445	Speed Vehicle Signal Circuit Failure
C1446	Brake Switch Circuit Failure
C1447	Traction Control Module Request Circuit Failure
C1448	Lamp Adaptive Damping Warning Circuit Failure
C1449	Traction Control Motor Coherency Fault
C1450	Traction Control Motor Circuit Failure
C1451	Traction Control Motor Circuit Open
C1452	Traction Control Motor Circuit Short to Battery
C1453	Traction Control Motor Circuit Short to Ground

C1454	Front Lateral Accelerometer Circuit Failure
C1455	Accelerometer Front Circuit Failure
C1456	Accelerometer Front Circuit Is Not Sensed
C1457	Accelerometer Front Circuit Short To Ground
C1458	Accelerometer Front Circuit Short To Battery
C1459	Adaptive Mode Switch Circuit Failure
C1460	Vehicle Accelerometer Power Circuit Failure
C1461	Vehicle Accelerometer Power Circuit Short to Battery
C1462	Left Front Vertical Accelerometer Circuit Failure
C1463	Right Front Vertical Accelerometer Circuit Failure
C1464	Pressure Transducer Redundant / Secondary Signal Faulted
C1465	Damper High Side Front Circuit Short To Battery
C1466	Damper Circuit Failure
C1467	Damper High Side Rear Circuit Short To Battery
C1468	Damper Low Side Front Circuit Failure
C1469	Damper Low Side Rear Circuit Failure
C1495	Traction Control Motor Potentiometer Circuit Failure
C1496	Traction Control Motor Potentiometer Circuit Open
C1497	Traction Control Motor Potentiometer Circuit Short to Battery
C1498	Traction Control Motor Potentiometer Circuit Short to Ground
C1499	Transfer Case Contact Plate "A" Encoder Circuit Failure
C1500	Transfer Case Contact Plate "B" Encoder Circuit Failure
C1501	Transfer Case Contact Plate "C" Encoder Circuit Failure
C1502	Transfer Case Contact Plate "D" Encoder Circuit Failure
C1503	Dynamic Stability Control Left Front Valve Malfunction
C1504	Dynamic Stability Control Right Front Valve Malfunction

C1505	Dynamic Stability Control Left Rear Valve Malfunction
C1506	Dynamic Stability Control Right Rear Valve Malfunction
C1507	Traction Control of Brake Exceeds Time-Out
C1508	Traction Control of Engine Exceeds Time-Out
C1510	Right Front Wheel Pressure Reduction Performance Problem
C1511	Left Front Wheel Pressure Reduction Performance Problem
C1512	Right Rear Wheel Pressure Reduction Performance Problem
C1513	Left rear Wheel Pressure Reduction Performance Problem
C1555	Scanner Communication Incompatibility
C1699	Left Rear Sensor Circuit Short to Vbat
C1700	Left Rear Sensor Circuit Failure
C1701	Left Rear Sensor Circuit Fault
C1702	RightRear Sensor Circuit Short to Vbat
C1703	Right Rear Sensor Circuit Failure
C1704	Right Rear Sensor Circuit Fault
C1705	Left Rear Center Sensor Circuit Short to Vbat
C1706	Left Rear Center Sensor Circuit Failure
C1707	Left Rear Center Sensor Circuit Fault
C1708	Right Rear Center Sensor Circuit Short to Vbat
C1709	Right Rear Center Sensor Circuit Failure
C1710	Right Rear Center Sensor Circuit Fault
C1711	Left Front Sensor Circuit Short to Vbat
C1712	Left Front Sensor Circuit Failure
C1713	Left Front Sensor Circuit Fault
C1714	Right Front Sensor Circuit Short to Vbat
C1715	Right Front Sensor Circuit Failure

C1716	Right Front Sensor Circuit Fault
C1717	Left Front Center Sensor Circuit Short to Vbat
C1718	Left Front Center Sensor Circuit Failure
C1719	Left Front Center Sensor Circuit Fault
C1721	Air Suspension Height Sensor Power Circuit Open
C1722	Air Suspension Height Sensor Power Circuit Short To Battery
C1723	Air Suspension Height Sensor Power Circuit Short To Ground
C1724	Air Suspension Height Sensor Power Circuit Failure
C1725	Air Suspension Front Pneumatic Failure
C1726	Air Suspension Rear Pneumatic Failure
C1727	Air Suspension Reservoir Pneumatic Failure
C1728	Transfer Case unable to transition between 2H and 4H
C1729	Transfer Case unable to transition between 4H and 4L
C1730	Reference Voltage Out of Range (+5 v)
C1731	Air Suspension LF Corner Up Timeout
C1732	Air Suspension LF Corner Down Timeout
C1733	Air Suspension RF Corner Up Timeout
C1734	Air Suspension RF Corner Down Timeout
C1735	Air Suspension LR Corner Up Timeout
C1736	Air Suspension LR Corner Down Timeout
C1737	Air Suspension RR Corner Up Timeout
C1738	Air Suspension RR Corner Down Timeout
C1739	Right Front Center Sensor Circuit Short to Vbat
C1740	Right Front Center Sensor Circuit Failure
C1741	Right Front Center Sensor Circuit Fault
C1742	Rear Sounder Circuit Failure

C1743	Rear Sounder Circuit Short to Vbatt
C1744	Front Sounder Circuit Failure
C1745	Front Sounder Circuit Short to Vbatt
C1748	Switch input Circuit Short to Gnd
C1749	Trailer Input Circuit Failure
C1750	Accelerator Position Sensor Out of Range
C1751	Vehicle Speed Sensor #1 Output Circuit Short to Vbatt
C1752	Vehicle Speed Sensor #1 Output Circuit Short to Gnd
C1753	Hydraulic Clutch Actuator Valve Signal Fault
C1754	Hydraulic Clutch Actuator Valve Circuit Failure
C1755	Power Limit Shutdown Fault
C1756	Air Suspension Front Height Sensor High (SE) Signal Circuit Failure
C1757	Air Suspension Front Height Sensor High (SE) Signal Circuit Open
C1758	Air Suspension Front Height Sensor High (SE) Signal Circuit Short To Battery
C1759	Air Suspension Front Height Sensor High (SE) Signal Circuit Short To Ground
C1760	Air Suspension Rear Height Sensor High (SE) Signal Circuit Failure
C1761	Air Suspension Rear Height Sensor High (SE) Signal Circuit Open
C1762	Air Suspension Rear Height Sensor High (SE) Signal Circuit Short To Battery
C1763	Air Suspension Rear Height Sensor High (SE) Signal Circuit Short To Ground
C1765	Air Suspension Rear Height Sensor Low Signal Circuit Failure

C1766	Air Suspension Rear Height Sensor Low Signal Circuit Open
C1767	Air Suspension Rear Height Sensor Low Signal Circuit Short To Battery
C1768	Air Suspension Rear Height Sensor Low Signal Circuit Short To Ground
C1770	Air Suspension Vent Solenoid Output Circuit Failure
C1771	Air Suspension Vent Solenoid Output Circuit Open
C1772	Air Suspension Vent Solenoid Output Circuit Short To Battery
C1773	Air Suspension Vent Solenoid Output Circuit Short To Ground
C1774	Coolant Temp Out of Range
C1775	DC-DC Converter Failure
C1776	Heater System Failure
C1777	Vacuum Pressure Circuit Failure
C1778	Power Steering Failure
C1779	Blower Switch Failure
C1780	Temperature Select Failure
C1781	Engine Coolant Temperature Signal Missing/Fault
C1790	Air Suspension LR Air Spring/Shock Solenoid Output Circuit Failure
C1791	Air Suspension LR Air Spring/Shock Solenoid Output Circuit Open
C1792	Air Suspension LR Air Spring/Shock Solenoid Output Circuit Short To Battery
C1793	Air Suspension LR Air Spring/Shock Solenoid Output Circuit Short To Ground
C1795	Air Suspension RR Air Spring/Shock Solenoid Output Circuit Failure

C1796	Air Suspension RR Air Spring/Shock Solenoid Output Circuit Open
C1797	Air Suspension RR Air Spring/Shock Solenoid Output Circuit Short To Battery
C1798	Air Suspension RR Air Spring/Shock Solenoid Output Circuit Short To Ground
C1800	Air Suspension Reservoir Solenoid Circuit Failure
C1805	Mismatched PCM and/or ABS-TC Module
C1813	Air Suspension LR Vent Request Exceeded Max Timing
C1814	Air Suspension RR Vent Request Exceeded Max Timing
C1818	Air Suspension LR Air Compress Request Exceeded Max Timing
C1819	Air Suspension RR Air Compress Request Exceeded Max Timing
C1820	Air Suspension RF Air Compress Request Exceeded Max Timing
C1830	Air Suspension Compressor Relay Circuit Failure
C1831	Air Suspension Compressor Relay Circuit Open
C1832	Air Suspension Compressor Relay Circuit Short To Battery
C1833	Air Suspension Compressor Relay Circuit Short To Ground
C1834	Gauge Drive Current Fault
C1835	Current Sense Circuit Failure
C1836	Battery Temp out of Range
C1837	Battery Heater Circuit Failure
C1838	Charging System Fault
C1839	Leakage Fault
C1840	Air Suspension Disable Switch Circuit Failure
C1841	Air Suspension Disable Switch Circuit Open
C1842	Air Suspension Disable Switch Circuit Short To Battery

C1843	Air Suspension Disable Switch Circuit Short To Ground
C1844	Air Suspension Secondary Front Inflator Solenoid Output Circuit Failure
C1845	Air Suspension Front Inflator Solenoid Output Circuit Failure
C1846	Air Suspension Front Inflator Solenoid Output Circuit Open
C1847	Air Suspension Front Inflator Solenoid Output Circuit Short To Battery
C1848	Air Suspension Front Inflator Solenoid Output Circuit Short To Ground
C1849	Master Cylinder Pressure Out of Range
C1850	Air Suspension Warning Lamp Circuit Failure
C1851	Air Suspension Warning Lamp Circuit Open
C1852	Air Suspension Warning Lamp Circuit Short To Battery
C1853	Air Suspension Warning Lamp Circuit Short To Ground
C1854	Motor Temperature Out of Range
C1855	Acceleration Position Sensor Conflict
C1856	Traction Motor Encoder circuit Failure
C1859	PRNDL Input #2 Circuit Failure
C1860	PRNDL Input #3 Circuit Failure
C1861	PRNDL Input #4 Circuit Failure
C1862	Contactor Circuit Failure
C1863	External Charging Fault
C1864	Battery Module Fault
C1865	Air Suspension Rear Inflator Solenoid Output Circuit Failure
C1866	Air Suspension Rear Inflator Solenoid Output Circuit Open
C1867	Air Suspension Rear Inflator Solenoid Output Circuit Short To Battery

C1868	Air Suspension Rear Inflator Solenoid Output Circuit Short To Ground
C1869	Air Suspension Gate Solenoid Output Circuit Failure
C1870	Air Suspension Gate Solenoid Output Circuit Open
C1871	Air Suspension Gate Solenoid Output Circuit Short To Battery
C1872	Air Suspension Gate Solenoid Output Circuit Short To Ground
C1873	Air Suspension RF Air Spring Solenoid Output Circuit Failure
C1874	Air Suspension RF Air Spring Solenoid Output Circuit Open
C1875	Air Suspension RF Air Spring Solenoid Output Circuit Short To Battery
C1876	Air Suspension RF Air Spring Solenoid Output Circuit Short To Ground
C1877	Air Suspension LF Air Spring Solenoid Output Circuit Failure
C1878	Air Suspension LF Air Spring Solenoid Output Circuit Open
C1879	Air Suspension LF Air Spring Solenoid Output Circuit Short To Battery
C1880	Air Suspension LF Air Spring Solenoid Output Circuit Short To Ground
C1881	Air Suspension RF Height Sensor Circuit Failure
C1882	Air Suspension RF Height Sensor Circuit Open
C1883	Air Suspension RF Height Sensor Circuit Short To Battery
C1884	Air Suspension RF Height Sensor Circuit Short To Ground
C1885	Air Suspension RR Height Sensor Circuit Failure
C1886	Air Suspension RR Height Sensor Circuit Open
C1887	Air Suspension RR Height Sensor Circuit Short To Battery

C1888	Air Suspension RR Height Sensor Circuit Short To Ground
C1889	Air Suspension LF Height Sensor Circuit Failure
C1890	Air Suspension LF Height Sensor Circuit Open
C1891	Air Suspension LF Height Sensor Circuit Short To Battery
C1892	Air Suspension LF Height Sensor Circuit Short To Ground
C1893	Air Suspension LR Height Sensor Circuit Failure
C1894	Air Suspension LR Height Sensor Circuit Open
C1895	Air Suspension LR Height Sensor Circuit Short To Battery
C1896	Air Suspension LR Height Sensor Circuit Short To Ground
C1897	Steering VAPS II Circuit Loop Failure
C1898	Steering VAPS II Circuit Loop Open
C1899	Steering VAPS II Circuit Loop Short To Battery
C1900	Steering VAPS II Circuit Loop Short To Ground
C1901	Ride Control RR Shock Actuator Circuit Failure
C1902	Ride Control RR Shock Actuator Circuit Open
C1903	Ride Control RR Shock Actuator Circuit Short To Battery
C1904	Ride Control RR Shock Actuator Circuit Short To Ground
C1905	Ride Control LR Shock Actuator Circuit Failure
C1906	Ride Control LR Shock Actuator Circuit Open
C1907	Ride Control LR Shock Actuator Circuit Short To Battery
C1908	Ride Control LR Shock Actuator Circuit Short To Ground
C1909	Ride Control RF Shock Actuator Circuit Failure
C1910	Ride Control RF Shock Actuator Circuit Open
C1911	Ride Control RF Shock Actuator Circuit Short To Battery
C1912	Ride Control RF Shock Actuator Circuit Short To Ground
C1913	Ride Control LF Shock Actuator Circuit Failure
C1914	Ride Control LF Shock Actuator Circuit Open
C1915	Ride Control LF Shock Actuator Circuit Short To Battery

C1916	Ride Control LF Shock Actuator Circuit Short To Ground
C1917	Steering EVO Out-of-Range Fault
C1918	Air Suspension Ride Height Select Switch Circuit Failure
C1920	Led #1 Circuit Failure
C1921	VAPS Solenoid Actuator Output Circuit Failure
C1922	VAPS Solenoid Actuator Output Circuit Open
C1923	VAPS Solenoid Actuator Output Circuit Short To Battery
C1924	VAPS Solenoid Actuator Output Circuit Short To Ground
C1925	VAPS Solenoid Actuator Return Circuit Failure
C1926	VAPS Solenoid Actuator Return Circuit Open
C1927	VAPS Solenoid Actuator Return Circuit Short To Battery
C1928	VAPS Solenoid Actuator Return Circuit Short To Ground
C1929	Air Suspension Front Compressor Relay Circuit Failure
C1930	Air Suspension Front Compressor Relay Circuit Open
C1931	Air Suspension Front Compressor Relay Circuit Short To Battery
C1932	Air Suspension Front Compressor Relay Circuit Short To Ground
C1933	Solenoid Current Out Of Range
C1934	HPU (Hydraulic Pump Unit) Pressurisation Failure
C1935	Chime Circuit Failure
C1936	Hydraulic Pump Relay Circuit Failure
C1937	Steering Wheel Angle Sensor Offset Failure
C1938	Invalid Steering Wheel Angle Sensor ID
C1939	Brake Pressure Switch Input Circuit Failure
C1940	Brake Pressure Switch Mechanical Failure
C1942	Unrecognized Powertrain Configuration
C1943	Airbag Deployment Indication Input Fault

C1944	Gauge Driver Circuit Fault
C1945	Park Switch Indicates Park with Vehicle Moving
C1946	Seat Track Position Switch Circuit Open
C1947	Seat Track Position Switch Circuit Short to Ground
C1948	Seat Track Position Switch Circuit Resistance Out of Range
C1949	Accelerometer Sensor Circuit Open
C1950	Accelerometer Sensor Circuit Failure
C1951	Lateral Accelerometer Sensor Circuit Open
C1952	Yaw Rate Sensor Circuit Open
C1953	Master Cylinder Pressure Sensor Circuit Open
C1954	Master Cylinder Pressure Sensor Circuit Failure
C1955	Steering Angle Sensor Circuit Open
C1956	Steering Angle Sensor Circuit Failure
C1957	Dynamic Stability Control Valve RF Circuit Failure
C1958	Dynamic Stability Control Valve LF Circuit Failure
C1959	Lateral Accelerometer Sensor Circuit Failure
C1960	Driver Brake Apply Circuit Fault
C1961	Park Lamp Relay Coil Circuit Failure
C1962	Park Lamp Relay Coil Short to Battery
C1963	Stability Control Inhibit Warning

Code	Definition
C2000	ISO/SAE Reserved
C2767	Reserved – TBD

Code	Definition
C3000	ISO/SAE Reserved

# UXXXXX



Codes	Definition
U0001	Controller area network (CAN) data bus: high speed bus/communication control module
U0002	Controller area network (CAN) data bus: high speed bus - performance problem/ configuration error
U0003	Controller area network (CAN) data bus: high speed bus(+) - open circuit
U0004	Controller area network (CAN) data bus: high speed bus(+) - voltage low
U0005	Controller area network (CAN) data bus: high speed bus(+) - voltage high
U0006	Controller area network (CAN) data bus: high speed bus(-) - open circuit
U0007	Controller area network (CAN) data bus: high speed bus (-) - voltage low
U0008	Controller area network (CAN) data bus: high speed bus(-) - voltage high
U0009	Controller area network (CAN) data bus: high speed bus (-) - shorted to data bus(+)
U0010	Controller area network (CAN) data bus: medium speed bus
U0011	Controller area network (CAN) data bus: medium speed bus - performance problem
U0012	Controller area network (CAN) data bus: medium speed bus(+) - open circuit
U0013	Controller area network (CAN) data bus: medium speed bus(+) - voltage low
U0014	Controller area network (CAN) data bus: medium speed bus(+) - voltage high
U0015	Controller area network (CAN) data bus: medium speed bus(-)
U0016	Controller area network (CAN) data bus: medium speed bus(-) - voltage low

U0017	Controller area network (CAN) data bus: medium speed bus(-)- voltage high
U0018	Controller area network (CAN) data bus: medium speed bus (-)-shorted to data bus(+)
U0019	Controller area network (CAN) data bus: low speed bus
U0020	Controller area network (CAN) data bus: low speed bus - performance problem
U0021	Controller area network (CAN) data bus: low speed bus (+) - open circuit
U0022	Controller area network (CAN) data bus: low speed bus (+) - voltage low
U0023	Controller area network (CAN) data bus: low speed bus (+) - voltage high
U0024	Controller area network (CAN) data bus: low speed bus (-) - open circuit
U0025	Controller area network (CAN) data bus: low speed bus (-) - voltage low
U0026	Controller area network (CAN) data bus: low speed bus (-) - voltage high
U0027	Controller area network (CAN) data bus: low speed bus (-) - shorted to data bus (+)
U0028	Vehicle area network (VAN) data bus A
U0029	Vehicle area network (VAN) data bus A - performance problem
U0030	Vehicle area network (VAN) data bus A (+)- open circuit
U0031	Vehicle area network (VAN) data bus A (+)- voltage low
U0032	Vehicle area network (VAN) data bus A (+)- voltage high
U0033	Vehicle area network (VAN) data bus A (-)- open circuit
U0034	Vehicle area network (VAN) data bus A (-)- voltage low
U0035	Vehicle area network (VAN) data bus A (-)- voltage high

U0036	Vehicle area network (VAN) data bus A (-)- shorted to data bus A (+)
U0037	Vehicle area network (VAN) data bus B
U0038	Vehicle area network (VAN) data bus B - performance problem
U0039	Vehicle area network (VAN) data bus B (+)- open circuit
U0040	Vehicle area network (VAN) data bus B (+)- voltage low
U0041	Vehicle area network (VAN) data bus B (+)- voltage high
U0042	Vehicle area network (VAN) data bus B (-)- open circuit
U0043	Vehicle area network (VAN) data bus B (-)- voltage low
U0044	Vehicle area network (VAN) data bus B (-)- voltage high
U0045	Vehicle area network (VAN) data bus B (-)- shorted to data bus B (+)
U0046	Vehicle area network (VAN) data bus C
U0047	Vehicle area network (VAN) data bus C - performance problem
U0048	Vehicle area network (VAN) data bus C (+)- open circuit
U0049	Vehicle area network (VAN) data bus C (+)- voltage low
U0050	Vehicle area network (VAN) data bus C (+)- voltage high
U0051	Vehicle area network (VAN) data bus C (-)- open circuit
U0052	Vehicle area network (VAN) data bus C (-)- voltage low
U0053	Vehicle area network (VAN) data bus C (-)- voltage high
U0054	Vehicle area network (VAN) data bus C (-)- shorted to data bus C (+)
U0055	Vehicle area network (VAN) data bus D
U0056	Vehicle area network (VAN) data bus D- performance problem
U0057	Vehicle area network (VAN) data bus D (+)- open circuit
U0058	Vehicle area network (VAN) data bus D (+)- voltage low
U0059	Vehicle area network (VAN) data bus D (+)- voltage high
U0060	Vehicle area network (VAN) data bus D (-)- open circuit

U0061	Vehicle area network (VAN) data bus D (-)- voltage low
U0062	Vehicle area network (VAN) data bus D (-)- voltage high
U0063	Vehicle area network (VAN) data bus D (-)- shorted to data bus D (+)
U0064	Vehicle area network (VAN) data bus E
U0065	Vehicle area network (VAN) data bus E - performance problem
U0066	Vehicle area network (VAN) data bus E (+)- open circuit
U0067	Vehicle area network (VAN) data bus E (+)- voltage low
U0068	Vehicle area network (VAN) data bus E (+)- voltage high
U0069	Vehicle area network (VAN) data bus E (-)- open circuit
U0070	Vehicle area network (VAN) data bus E (-)- voltage low
U0071	Vehicle area network (VAN) data bus E (-)- voltage high
U0072	Vehicle area network (VAN) data bus E (-)- shorted to data bus E (+)
U0073	Control module - data bus Off
U0100	Data bus: engine control module (ECM) A - no communication
U0101	Data bus: transmission control module (TCM) - no communication
U0102	Data bus: transfer box control module - no communication
U0103	Data bus: gear shift module - no communication / System relay - low signal
U0104	Data bus: cruise control module - no communication
U0105	Data bus: injector control module - no communication
U0106	Data bus: glow plug control module - no communication
U0107	Data bus: throttle actuator control (TAC) module - no communication
U0108	Data bus: alternative fuel control module - no communication
U0109	Data bus: fuel pump (FP) control module - no communication

U0110	Data bus: drive motor control module - no communication
U0111	Data bus: battery energy control module A - no communication
U0112	Data bus: battery energy control module B - no communication
U0113	Data bus: emissions critical control information - no communication
U0114	Data bus: four wheel drive clutch control module - no communication
U0115	Data bus: engine control module (ECM) B - no communication
U0121	Data bus: anti-lock brake system (ABS) control module - no communication
U0122	Data bus: vehicle dynamics control module - no communication
U0123	Data bus: yaw rate sensor module - no communication
U0124	Data bus: lateral acceleration sensor module - no communication
U0125	Data bus: multi-axis acceleration sensor module - no communication
U0126	Data bus: steering position sensor control module - no communication
U0127	Data bus: tire pressure monitor module- no communication
U0128	Data bus: parking brake control module - no communication
U0129	Data bus: brake system control module - no communication
U0130	Data bus: steering effort control module - no communication
U0131	Data bus: power steering control module - no communication

<b>U0132</b>	Data bus: suspension ride height control module - no communication
<b>U0140</b>	Data bus: body control module (8CM)- no communication
<b>U0141</b>	Data bus: body control module (8CM) A- no communication
<b>U0142</b>	Data bus: body control module (8CM) 8 - no communication
<b>U0143</b>	Data bus: body control module (8CM) C- no communication
<b>U0144</b>	Data bus: body control module (8CM) D- no communication
<b>U0145</b>	Data bus: body control module (8CM) E - no communication
<b>U0146</b>	Data bus: gateway A- no communication
<b>U0147</b>	Data bus: gateway 8 - no communication
<b>U0148</b>	Data bus: gateway C - no communication
<b>U0149</b>	Data bus: gateway D- no communication
<b>U0150</b>	Data bus: gateway E - no communication
<b>U0151</b>	Data bus: supplementary restraint system (SRS) control module - no communication
<b>U0152</b>	Data bus : supplementary restraint system (SRS) control module: left - no communication
<b>U0153</b>	Data bus: supplementary restraint system (SRS) control module: right - no communication
<b>U0154</b>	Data bus: supplementary restraint system (SRS) occupant sensing control module- no communication
<b>U0155</b>	Data bus: instrumentation control module - no communication

U0156	Data bus: information centre A - no communication
U0157	Data bus: information centre B - no communication
U0158	Data bus: head up display - no communication
U0159	Data bus: parking aid control module A - no communication
U0160	Data bus: audible alert control module - no communication
U0161	Data bus: compass module - no communication
U0162	Data bus: navigation display module - no communication
U0163	Data bus: navigation control module - no communication
U0164	Data bus: NC control module - no communication
U0165	Data bus: NC control module: rear
U0166	Data bus: auxiliary heater control module - no communication
U0167	Data bus: immobilizer control 'module - no communication / Engine control module - internal fault
U0168	Data bus: alarm system control module - no communication
U0169	Data bus: sunroof control module - no communication
U0170	Data bus: supplementary restraint system (SRS) sensor A - no communication
U0171	Data bus: supplementary restraint system (SRS) sensor B - no communication
U0172	Data bus: supplementary restraint system (SRS) sensor C - no communication
U0173	Data bus: supplementary restraint system (SRS) sensor D - no communication
U0174	Data bus: supplementary restraint system (SRS) sensor E - no communication
U0175	Data bus: supplementary restraint system (SRS) sensor F - no communication

U0176	Data bus: supplementary restraint system (SRS) sensor G - no communication
U0177	Data bus: supplementary restraint system (SRS) sensor H - no communication
U0178	Data bus: supplementary restraint system (SRS) sensor I - no communication
U0179	Data bus: supplementary restraint system (SRS) sensor J - no communication
U0180	Data bus: automatic lighting control module - no communication
U0181	Data bus: headlamp level control module - no communication
U0182	Data bus: lamps control module: front - no communication
U0183	Data bus: lamps control module: rear- no communication
U0184	Data bus: radio - no communication
U0185	Data bus: aerial module - no communication
U0186	Data bus: audio unit output amplifier- no communication
U0187	Data bus: digital disc player/changer module A - no communication
U0188	Data bus: digital disc player/changer module B - no communication
U0189	Data bus: digital disc player/changer module C - no communication
U0190	Data bus: digital disc player/changer module D - no communication
U0191	Data bus: television - no communication
U0192	Data bus: personal computer - no communication
U0193	Data bus: digital audio control module A- no communication
U0194	Data bus: digital audio control module B - no communication

<b>U0195</b>	Data bus: subscription entertainment receiver module - no communication
<b>U0196</b>	Data bus: entertainment control module: rear - no communication
<b>U0197</b>	Data bus: telephone control module - no communication
<b>U0198</b>	Data bus: telematics control module - no communication
<b>U0199</b>	Data bus: door function control module A - no communication
<b>U0200</b>	Data bus: door function control module B - no communication
<b>U0201</b>	Data bus: door function control module C - no communication
<b>U0202</b>	Data bus: door function control module D - no communication
<b>U0203</b>	Data bus: door function control module E - no communication
<b>U0204</b>	Data bus: door function control module F - no communication
<b>U0205</b>	Data bus: door function control module G - no communication
<b>U0206</b>	Data bus: convertible top control module - no communication
<b>U0207</b>	Data bus: moveable roof control module - no communication
<b>U0208</b>	Data bus: seat adjustment control module A - no communication
<b>U0209</b>	Data bus: seat adjustment control module B - no communication
<b>U0210</b>	Data bus: seat adjustment control module C - no communication
<b>U0211</b>	Data bus: seat adjustment control module D - no communication

U0212	Data bus: steering column control module - no communication
U0213	Data bus: mirror control module A - no communication
U0214	Data bus: remote function actuation - no communication
U0215	Data bus: door contact switch A - no communication
U0216	Data bus: door contact switch B - no communication
U0217	Data bus: door contact switch C - no communication
U0218	Data bus: door contact switch D - no communication
U0219	Data bus: door contact switch E - no communication
U0220	Data bus: door contact switch F - no communication
U0221	Data bus: door contact switch G - no communication
U0222	Data bus: electric window motor A- no communication
U0223	Data bus: electric window motor B - no communication
U0224	Data bus: electric window motor C - no communication
U0225	Data bus: electric window motor D - no communication
U0226	Data bus: electric window motor E - no communication
U0227	Data bus: electric window motor F - no communication
U0228	Data bus: electric window motor G - no communication
U0229	Data bus: heated steering wheel module - no communication
U0230	Data bus: tailgate control module - no communication
U0231	Data bus: rain sensor control module- no communication
U0232	Data bus: side obstacle detection control module: left - no communication
U0233	Data bus: side obstacle detection control module: right- no communication
U0234	Data bus: convenience recall module - no communication
U0235	Data bus: cruise control front distance range sensor - no communication
U0253	Lost Communication With Accessory Protocol Interface Module

U0284	Lost Communication With Active Grille Air Shutter 1 Motor Module
U0293	Data bus: HVAC control unit- no communication
U029D	Lost Communication With NOX Sensor A
U0300	Control module - internal software incompatibility
U0301	Software incompatibility - engine control module (ECM)
U0302	Software incompatibility - transmission control module (TCM)
U0303	Software incompatibility - transfer box control module
U0304	Software incompatibility - gear shift module
U0305	Software incompatibility - cruise control module
U0306	Software incompatibility - injector control module
U0307	Software incompatibility - glow plug control module
U0308	Software incompatibility - throttle actuator control (TAC) module
U0309	Software incompatibility - alternative fuel control module
U0310	Software incompatibility - fuel pump (FP) control module
U0311	Software incompatibility - drive motor control module
U0312	Software incompatibility - battery energy control module A
U0313	Software incompatibility - battery energy control module B
U0314	Software incompatibility - four wheel drive clutch control module
U0315	Software incompatibility - anti-lock brake system (ASS) control module
U0316	Software incompatibility - vehicle dynamics control module
U0317	Software incompatibility - parking brake control module
U0318	Software incompatibility - brake system control module
U0319	Software incompatibility - steering effort control module
U0320	Software incompatibility - power steering control module

U0321	Software incompatibility - suspension ride height control module
U0322	Software incompatibility - body control module
U0323	Software incompatibility - instrumentation control module
U0324	Software incompatibility - AIC control module
U0325	Software incompatibility - auxiliary heater control module
U0326	Software incompatibility - immobilizer control module
U0327	Software incompatibility - alarm system control module
U0328	Software incompatibility - steering position sensor control module
U0329	Software incompatibility - steering column control module
U0330	Software incompatibility - tire pressure monitor module
U0331	Software incompatibility - body control module A
U0332	Software incompatibility - multi-axis acceleration sensor module
U0400	Invalid data received
U0401	Invalid data received - engine control module (ECM)
U0402	Invalid data received - transmission control module (TCM)
U0403	Invalid data received - transfer box control module
U0404	Invalid data received - gear shift module
U0405	Invalid data received - cruise control module
U0406	Invalid data received - injector control module
U0407	Invalid data received - glow plug control module
U0408	Invalid data received - throttle actuator control (TAC) module
U0409	Invalid data received - alternative fuel control module
U0410	Invalid data received - fuel pump (FP) control module
U0411	Invalid data received -drive motor control module
U0412	Invalid data received - battery energy control module A
U0413	Invalid data received - battery energy control module B

U0414	Invalid data received - four wheel drive clutch control module
U0415	Invalid data received - anti-lock brake system (ABS) control module
U0416	Invalid data received - vehicle dynamics control module
U0417	Invalid data received - parking brake control module
U0418	Invalid data received - brake system control module
U0419	Invalid data received - steering effort control module
U0420	Invalid data received - power steering control module
U0421	Invalid data received - suspension ride height control module
U0422	Invalid data received - body control module
U0423	Invalid data received - instrumentation control module
U0424	Invalid data received - A/C control module
U0425	Invalid data received - auxiliary heater control module
U0426	Invalid data received - immobilizer
U0427	Invalid data received - alarm system control module
U0428	Invalid data received - steering position sensor control module
U0429	Invalid data received - steering column control module
U0430	Invalid data received - tire pressure monitor module
U0431	Invalid data received - body control module A
U0433	Invalid data received - cruise control front distance range sensor
U0481	Invalid Data Received From Automatic Lighting Control Module

Code	Definition
U1000	SCP (J1850) Invalid or Missing Data for Primary Id
U1001	SCP (J1850) Invalid or Missing Data for Primary Id
U1002	SCP (J1850) Invalid or Missing Data for Primary Id
U1003	SCP (J1850) Invalid or Missing Data for Primary Id
U1004	SCP (J1850) Invalid or Missing Data for EEC Programming
U1005	SCP (J1850) Invalid or Missing Data for EEC Programming
U1006	SCP (J1850) Invalid or Missing Data for Primary Id
U1007	SCP (J1850) Invalid or Missing Data for Primary Id
U1008	SCP (J1850) Invalid or Missing Data for Engine Torque
U1009	SCP (J1850) Invalid or Missing Data for Engine Torque
U1010	SCP (J1850) Invalid or Missing Data for Engine Air Intake
U1011	SCP (J1850) Invalid or Missing Data for Engine Air Intake
U1012	SCP (J1850) Invalid or Missing Data for Primary Id
U1013	SCP (J1850) Invalid or Missing Data for Primary Id
U1014	SCP (J1850) Invalid or Missing Data for Primary Id
U1015	SCP (J1850) Invalid or Missing Data for Primary Id
U1016	SCP (J1850) Invalid or Missing Data for Primary Id
U1017	SCP (J1850) Invalid or Missing Data for Primary Id
U1018	SCP (J1850) Invalid or Missing Data for Throttle
U1019	SCP (J1850) Invalid or Missing Data for Throttle
U1020	SCP (J1850) Invalid or Missing Data for Air Conditioning Clutch
U1021	SCP (J1850) Invalid or Missing Data for Air Conditioning Clutch
U1022	SCP (J1850) Invalid or Missing Data for Primary Id
U1023	SCP (J1850) Invalid or Missing Data for Primary Id
U1024	SCP (J1850) Invalid or Missing Data for Primary Id

U1025	SCP (J1850) Invalid or Missing Data for Primary Id
U1026	SCP (J1850) Invalid or Missing Data for Engine RPM
U1027	SCP (J1850) Invalid or Missing Data for Engine RPM
U1028	SCP (J1850) Invalid or Missing Data for Primary Id
U1029	SCP (J1850) Invalid or Missing Data for Primary Id
U1030	SCP (J1850) Invalid or Missing Data for Experimental #1
U1031	SCP (J1850) Invalid or Missing Data for Experimental #1
U1032	SCP (J1850) Invalid or Missing Data for Primary Id
U1033	SCP (J1850) Invalid or Missing Data for Primary Id
U1034	SCP (J1850) Invalid or Missing Data for Primary Id
U1035	SCP (J1850) Invalid or Missing Data for Primary Id
U1036	SCP (J1850) Invalid or Missing Data for Wheels
U1037	SCP (J1850) Invalid or Missing Data for Wheels
U1038	SCP (J1850) Invalid or Missing Data for Primary Id
U1039	SCP (J1850) Invalid or Missing Data for Primary Id / Vehicle Speed
U1040	SCP (J1850) Invalid or Missing Data for Vehicle Speed
U1041	SCP (J1850) Invalid or Missing Data for Vehicle Speed
U1042	SCP (J1850) Invalid or Missing Data for Traction Control
U1043	SCP (J1850) Invalid or Missing Data for Traction Control
U1044	SCP (J1850) Invalid or Missing Data for Traction Motor
U1045	SCP (J1850) Invalid or Missing Data for Traction Motor
U1046	SCP (J1850) Invalid or Missing Data for Primary Id
U1047	SCP (J1850) Invalid or Missing Data for Primary Id
U1048	SCP (J1850) Invalid or Missing Data for Primary Id
U1049	SCP (J1850) Invalid or Missing Data for Primary Id
U1050	SCP (J1850) Invalid or Missing Data for Brakes
U1051	SCP (J1850) Invalid or Missing Data for Brakes

U1052	SCP (J1850) Invalid or Missing Data for Steering / Steering Wheel
U1053	SCP (J1850) Invalid or Missing Data for Steering / Steering Wheel
U1054	SCP (J1850) Invalid or Missing Data for Primary Id
U1055	SCP (J1850) Invalid or Missing Data for Primary Id
U1056	SCP (J1850) Invalid or Missing Data for Vehicle Configuration
U1057	SCP (J1850) Invalid or Missing Data for Vehicle Configuration
U1058	SCP (J1850) Invalid or Missing Data for Transmission / Transaxle / PRNDL
U1059	SCP (J1850) Invalid or Missing Data for Transmission / Transaxle / PRNDL
U1060	SCP (J1850) Invalid or Missing Data for Primary Id
U1061	SCP (J1850) Invalid or Missing Data for Primary Id
U1062	SCP (J1850) Invalid or Missing Data for Primary Id
U1063	SCP (J1850) Invalid or Missing Data for Primary Id
U1064	SCP (J1850) Invalid or Missing Data for Primary Id
U1065	SCP (J1850) Invalid or Missing Data for Primary Id
U1066	SCP (J1850) Invalid or Missing Data for Primary Id
U1067	SCP (J1850) Invalid or Missing Data for Primary Id
U1068	SCP (J1850) Invalid or Missing Data for Primary Id
U1069	SCP (J1850) Invalid or Missing Data for Primary Id
U1070	SCP (J1850) Invalid or Missing Data for Engine Sensors
U1071	SCP (J1850) Invalid or Missing Data for Engine Sensors
U1072	SCP (J1850) Invalid or Missing Data for Engine Coolant
U1073	Bus-Off (Mitsubishi) SCP (J1850) Invalid or Missing Data for Engine Coolant (GM)

	SCP (J1850) Invalid or Missing Data for Engine Coolant (Ford)
U1074	SCP (J1850) Invalid or Missing Data for Engine Oil
U1075	SCP (J1850) Invalid or Missing Data for Engine Oil Temp
U1076	SCP (J1850) Invalid or Missing Data for Primary Id
U1077	SCP (J1850) Invalid or Missing Data for Primary Id
U1078	SCP (J1850) Invalid or Missing Data for Primary Id
U1079	SCP (J1850) Invalid or Missing Data for Primary Id
U1080	SCP (J1850) Invalid or Missing Data for Primary Id
U1081	SCP (J1850) Invalid or Missing Data for Primary Id
U1082	SCP (J1850) Invalid or Missing Data for Engine Systems Other
U1083	SCP (J1850) Invalid or Missing Data for Engine Systems Other
U1084	SCP (J1850) Invalid or Missing Data for Powertrain Status Request
U1085	SCP (J1850) Invalid or Missing Data for Powertrain Status Request
U1086	SCP (J1850) Invalid or Missing Data for Primary Id
U1087	SCP (J1850) Invalid or Missing Data for Primary Id
U1088	SCP (J1850) Invalid or Missing Data for Suspension
U1089	SCP (J1850) Invalid or Missing Data for Suspension
U1090	SCP (J1850) Invalid or Missing Data for Non-Legislated Diagnostics
U1091	SCP (J1850) Invalid or Missing Data for Non-Legislated Diagnostics
U1092	SCP (J1850) Invalid or Missing Data for Primary Id
U1093	SCP (J1850) Invalid or Missing Data for Primary Id
U1094	SCP (J1850) Invalid or Missing Data for Experimental #2

U1095	SCP (J1850) Invalid or Missing Data for Experimental #2
U1096	SCP (J1850) Invalid or Missing Data for Primary Id
U1097	SCP (J1850) Invalid or Missing Data for Primary Id
U1098	SCP (J1850) Invalid or Missing Data for Vehicle Speed Control
U1099	SCP (J1850) Invalid or Missing Data for Vehicle Speed Control
U1100	SCP (J1850) Invalid or Missing Data for Primary Id
U1101	SCP (J1850) Invalid or Missing Data for Primary Id
U1102	SCP (J1850) Invalid or Missing Data for Primary Id
U1103	SCP (J1850) Invalid or Missing Data for Primary Id
U1104	SCP (J1850) Invalid or Missing Data for Chassis Status Request
U1105	SCP (J1850) Invalid or Missing Data for Chassis Status Request
U1106	SCP (J1850) Invalid or Missing Data for Legislated Diagnostics
U1107	SCP (J1850) Invalid or Missing Data for Legislated Diagnostics
U1108	SCP (J1850) Invalid or Missing Data for Electric Traction Drive (Inverter)
U1109	SCP (J1850) Invalid or Missing Data for Electric Traction Drive (Inverter)
U1110	A/C-ECU Timeout
U1111	SCP (J1850) Invalid or Missing Data for Primary Id
U1112	SCP (J1850) Invalid or Missing Data for Primary Id
U1113	SCP (J1850) Invalid or Missing Data for Primary Id
U1114	SCP (J1850) Invalid or Missing Data for Charging System
U1115	SCP (J1850) Invalid or Missing Data for Charging System

U1116	SCP (J1850) Invalid or Missing Data for Electrical Energy Management
U1117	SCP (J1850) Invalid or Missing Data for Electrical Energy Management
U1118	SCP (J1850) Invalid or Missing Data for Primary Id
U1119	SCP (J1850) Invalid or Missing Data for Primary Id
U1120	SCP (J1850) Invalid or Missing Data for Primary Id
U1121	SCP (J1850) Invalid or Missing Data for Primary Id
U1122	SCP (J1850) Invalid or Missing Data for Odometer
U1123	SCP (J1850) Invalid or Missing Data for Odometer
U1124	SCP (J1850) Invalid or Missing Data for Primary Id
U1125	SCP (J1850) Invalid or Missing Data for Primary Id
U1126	SCP (J1850) Invalid or Missing Data for Primary Id
U1127	SCP (J1850) Invalid or Missing Data for Primary Id
U1128	SCP (J1850) Invalid or Missing Data for Primary Id
U1129	SCP (J1850) Invalid or Missing Data for Primary Id
U1130	SCP (J1850) Invalid or Missing Data for Fuel System
U1131	SCP (J1850) Invalid or Missing Data for Fuel System
U1132	SCP (J1850) Invalid or Missing Data for Vehicle Motion
U1133	SCP (J1850) Invalid or Missing Data for Vehicle Motion
U1134	SCP (J1850) Invalid or Missing Data for Ignition Switch / Starter
U1135	SCP (J1850) Invalid or Missing Data for Ignition Switch / Starter
U1136	SCP (J1850) Invalid or Missing Data for Telltales
U1137	SCP (J1850) Invalid or Missing Data for Telltales
U1138	SCP (J1850) Invalid or Missing Data for Primary Id
U1139	SCP (J1850) Invalid or Missing Data for Primary Id
U1140	SCP (J1850) Invalid or Missing Data for Gateway

U1141	SCP (J1850) Invalid or Missing Data for Gateway
U1142	SCP (J1850) Invalid or Missing Data for Primary Id
U1143	SCP (J1850) Invalid or Missing Data for Primary Id
U1144	SCP (J1850) Invalid or Missing Data for Primary Id
U1145	SCP (J1850) Invalid or Missing Data for Primary Id
U1146	SCP (J1850) Invalid or Missing Data for Vehicle Security
U1147	SCP (J1850) Invalid or Missing Data for Vehicle Security
U1148	SCP (J1850) Invalid or Missing Data for Audio Control
U1149	SCP (J1850) Invalid or Missing Data for Audio Control
U1150	SCP (J1850) Invalid or Missing Data for Audible Warnings
U1151	SCP (J1850) Invalid or Missing Data for Audible Warnings
U1152	SCP (J1850) Invalid or Missing Data for Experimental #3
U1153	SCP (J1850) Invalid or Missing Data for Experimental #3
U1154	SCP (J1850) Invalid or Missing Data for Compact Disc
U1155	SCP (J1850) Invalid or Missing Data for Compact Disc
U1156	SCP (J1850) Invalid or Missing Data for Digital Signal Processing
U1157	SCP (J1850) Invalid or Missing Data for Digital Signal Processing
U1158	SCP (J1850) Invalid or Missing Data for Antenna
U1159	SCP (J1850) Invalid or Missing Data for Antenna
U1160	SCP (J1850) Invalid or Missing Data for Primary Id
U1161	SCP (J1850) Invalid or Missing Data for Primary Id
U1162	SCP (J1850) Invalid or Missing Data for Digital Audio Tape
U1163	SCP (J1850) Invalid or Missing Data for Digital Audio Tape
U1164	SCP (J1850) Invalid or Missing Data for Tuner / Receiver
U1165	SCP (J1850) Invalid or Missing Data for Tuner / Receiver
U1166	SCP (J1850) Invalid or Missing Data for Cassette Tape

U1167	SCP (J1850) Invalid or Missing Data for Cassette Tape
U1168	SCP (J1850) Invalid or Missing Data for Primary Id
U1169	SCP (J1850) Invalid or Missing Data for Primary Id
U1170	SCP (J1850) Invalid or Missing Data for Cellular Phone / Paging System
U1171	SCP (J1850) Invalid or Missing Data for Cellular Phone / Paging System
U1172	SCP (J1850) Invalid or Missing Data for Remote Button Control
U1173	SCP (J1850) Invalid or Missing Data for Remote Button Control
U1174	SCP (J1850) Invalid or Missing Data for Primary Id
U1175	SCP (J1850) Invalid or Missing Data for Primary Id
U1176	SCP (J1850) Invalid or Missing Data for Primary Id
U1177	SCP (J1850) Invalid or Missing Data for Primary Id
U1178	SCP (J1850) Invalid or Missing Data for Climate Control (HVAC)
U1179	SCP (J1850) Invalid or Missing Data for Climate Control (HVAC)
U1180	SCP (J1850) Invalid or Missing Data for Personalization (Memory) Features
U1181	SCP (J1850) Invalid or Missing Data for Personalization (Memory) Features
U1182	SCP (J1850) Invalid or Missing Data for Primary Id
U1183	SCP (J1850) Invalid or Missing Data for Primary Id
U1184	SCP (J1850) Invalid or Missing Data for Window Wiper / Washer
U1185	SCP (J1850) Invalid or Missing Data for Window Wiper / Washer
U1186	SCP (J1850) Invalid or Missing Data for Primary Id

U1187	SCP (J1850) Invalid or Missing Data for Primary Id
U1188	SCP (J1850) Invalid or Missing Data for Primary Id
U1189	SCP (J1850) Invalid or Missing Data for Primary Id
U1190	SCP (J1850) Invalid or Missing Data for Primary Id
U1191	SCP (J1850) Invalid or Missing Data for Primary Id
U1192	SCP (J1850) Invalid or Missing Data for Primary Id
U1193	SCP (J1850) Invalid or Missing Data for Primary Id
U1194	SCP (J1850) Invalid or Missing Data for Mirrors
U1195	SCP (J1850) Invalid or Missing Data for Mirrors
U1196	SCP (J1850) Invalid or Missing Data for Door Locks
U1197	SCP (J1850) Invalid or Missing Data for Door Locks
U1198	SCP (J1850) Invalid or Missing Data for External Access (Doors)
U1199	SCP (J1850) Invalid or Missing Data for External Access (Doors)
U1200	SCP (J1850) Invalid or Missing Data for Seat Motion / Control
U1201	SCP (J1850) Invalid or Missing Data for Seat Motion / Control
U1202	SCP (J1850) Invalid or Missing Data for Windows
U1203	SCP (J1850) Invalid or Missing Data for Windows
U1204	SCP (J1850) Invalid or Missing Data for Steering Column
U1205	SCP (J1850) Invalid or Missing Data for Steering Column
U1206	SCP (J1850) Invalid or Missing Data for Primary Id
U1207	SCP (J1850) Invalid or Missing Data for Primary Id
U1208	SCP (J1850) Invalid or Missing Data for Seat Switches
U1209	SCP (J1850) Invalid or Missing Data for Seat Switches
U1210	SCP (J1850) Invalid or Missing Data for Restraints
U1211	SCP (J1850) Invalid or Missing Data for Restraints

U1212	SCP (J1850) Invalid or Missing Data for Primary Id
U1213	SCP (J1850) Invalid or Missing Data for Primary Id
U1214	SCP (J1850) Invalid or Missing Data for Primary Id
U1215	SCP (J1850) Invalid or Missing Data for Primary Id
U1216	SCP (J1850) Invalid or Missing Data for External Lamp Outage
U1217	SCP (J1850) Invalid or Missing Data for External Lamp Outage
U1218	SCP (J1850) Invalid or Missing Data for External Lamps
U1219	SCP (J1850) Invalid or Missing Data for External Lamps
U1220	SCP (J1850) Invalid or Missing Data for Interior Lamp Outage
U1221	SCP (J1850) Invalid or Missing Data for Interior Lamp Outage
U1222	SCP (J1850) Invalid or Missing Data for Interior Lamps
U1223	SCP (J1850) Invalid or Missing Data for Interior Lamps
U1224	SCP (J1850) Invalid or Missing Data for Primary Id
U1225	SCP (J1850) Invalid or Missing Data for Primary Id
U1226	SCP (J1850) Invalid or Missing Data for Body Status Request
U1227	SCP (J1850) Invalid or Missing Data for Body Status Request
U1228	SCP (J1850) Invalid or Missing Data for Tires
U1229	SCP (J1850) Invalid or Missing Data for Tires
U1230	SCP (J1850) Invalid or Missing Data for Electric Defrost
U1231	SCP (J1850) Invalid or Missing Data for Electric Defrost
U1232	SCP (J1850) Invalid or Missing Data for Navigation
U1233	SCP (J1850) Invalid or Missing Data for Navigation
U1234	SCP (J1850) Invalid or Missing Data for Displays

U1235	SCP (J1850) Invalid or Missing Data for Displays
U1236	SCP (J1850) Invalid or Missing Data for Memory Storage
U1237	SCP (J1850) Invalid or Missing Data for Memory Storage
U1238	SCP (J1850) Invalid or Missing Data for Experimental #4
U1239	SCP (J1850) Invalid or Missing Data for Experimental #4
U1240	SCP (J1850) Invalid or Missing Data for Primary Id
U1241	SCP (J1850) Invalid or Missing Data for Primary Id
U1242	SCP (J1850) Invalid or Missing Data for Exterior Environment
U1243	SCP (J1850) Invalid or Missing Data for Exterior Environment
U1244	SCP (J1850) Invalid or Missing Data for Interior Environment
U1245	SCP (J1850) Invalid or Missing Data for Interior Environment
U1246	SCP (J1850) Invalid or Missing Data for Primary Id
U1247	SCP (J1850) Invalid or Missing Data for Primary Id
U1248	SCP (J1850) Invalid or Missing Data for Time / Date
U1249	SCP (J1850) Invalid or Missing Data for Time / Date
U1250	SCP (J1850) Invalid or Missing Data for Vehicle Id (VIN)
U1251	SCP (J1850) Invalid or Missing Data for Vehicle Id (VIN)
U1252	SCP (J1850) Invalid or Missing Data for Class A Functions
U1253	SCP (J1850) Invalid or Missing Data for Class A Functions
U1254	SCP (J1850) Invalid or Missing Data for Network Control
U1255	SCP (J1850) Invalid or Missing Data for Network Control
U1260	SCP (J1850) Single Ended (+) Circuit Failure
U1261	SCP (J1850) Single Ended (-) Circuit Failure
U1262	SCP (J1850) Communication Bus Fault

U1308	SCP (J1850) Invalid or Missing Data for Function Read Engine Torque
U1341	SCP (J1850) Invalid or Missing Data for Function Read Vehicle Speed
U140A	Implausible Right Front Wheel Speed Signal Received (Jeep)
U1412	Implausible Vehicle Speed Signal Received
U1417	Implausible Left Wheel Distance Signal (Dodge, Chrysler, Jeep)
U1418	Implausible Left Wheel Distance Signal Received (Chrysler, Dodge, Jeep)
U1430	SCP (J1850) Invalid or Missing Data for Function Read Fuel System
U1451	SCP (J1850) Invalid or Missing Data for Function Read Audible Warnings / Anti-Theft Module
U1600	Electronic key-immobiliser system fault (Fiat, Alpha Romeo, Audi, Nissan)
U1612	SCP (J1850) Lack of Acknowledgment for Primary Id
U1736	SCP (J1850) Lack of Acknowledgment for Telltales
U1750	SCP (J1850) Lack of Acknowledgment for Audible Warnings
U1794	SCP (J1850) Lack of Acknowledgment for Mirrors
U1797	SCP (J1850) Lack of Acknowledgment for Door Locks
U1798	SCP (J1850) Lack of Acknowledgment for External Access (Doors)
U1806	SCP (J1850) Lack of Acknowledgment for Primary Id
U1900	CAN Communication Bus Fault
U1950	UPB Communication Bus Fault

Code	Definition
U2000	Audio Rear Control Unit is Not Responding
U2001	Audio Tape Deck Unit is Not Responding
U2002	Audio Bezel is Not Responding
U2003	Audio Compact Disk / Disk Jockey Unit is Not Responding
U2004	Audio Steering Wheel Control Unit is Not Responding
U2005	Audio Rear Integrated Control Panel Unit is Not Responding
U2006	Audio Remote Climate Control Unit is Not Responding
U2007	Audio Navigation Unit is Not Responding
U2008	Audio Phone is Not Responding
U2009	Audio Front Control Module (ACM) is Not Responding
U2010	Module is Not Responding (Non SCP)
U2011	Module Transmitted Invalid Data (Non SCP)
U2012	Communication Bus Error (Non SCP)
U2013	Compass Module is not Responding
U2014	Audio Subwoofer Unit is Not Responding
U2015	Signal Link Fault (Non SCP)
U2016	Signal Link Short to Ground (Non SCP) / From NGV Module
U2017	Driver Side Crash Sensor Communication Fault (Non SCP)
U2018	Passenger Side Crash Sensor Communication Fault (Non SCP)
U2019	Audio Voice Module Not Responding
U2020	Audio Center Amp is not responding
U2021	Invalid /fault data received (Non SCP)
U20BB	Communication Loss with TCM
U2150	SCP (J1850) Invalid Data from REM
U2152	SCP (J1850) Invalid Data from GEM

U2160	SCP (J1850) Invalid Data from IC
U2195	SCP (J1850) Invalid Data from SCLM
U2500	(CAN) Lack of Acknowledgement From Engine Management
U2510	Received Data Does Not Match (Ford)

Code	Definition
U3000	Control Module
U3001	Control Module Improper Shutdown
U3002	Vehicle Identification Number
U3003	Battery Voltage
U3004	Accessory Power Relay
U3005	Retained Accessory Power
U3006	Control Module Input Power "A"
U3007	Control Module Input Power "B"
U3008	Control Module Ground "A"
U3009	Control Module Ground "B"
U300A	Ignition Switch
U300B	Ignition Input Accessory/On/Start
U300C	Ignition Input Off/On/Start
U300D	Ignition Input On/Start
U300E	Ignition Input On
U300F	Ignition Input Accessory
U3010	Ignition Input Start
U3011	Ignition Input Off
U3012	ISO/SAE Reserved
U3100	ISO/SAE Reserved
U3F00	ISO/SAE Reserved

# ACURA



Codes	Definition
P1009	Variable Valve Timing Control Advance Malfunction
P1020	Valve Pause System Stuck Off
P1021	Valve Pause System Stuck On
P1024	Valve Pause System Sticking On
P1077	Intake Manifold Runner Control System Malfunction Low RPM
P1078	Intake Manifold Runner Control System Malfunction High RPM
P1102	Mass air flow (MAF) sensor - signal higher than expected
P1103	Mass air flow (MAF) sensor - signal higher than expected
P1106	Barometric Pressure Sensor Range/Performance Problem
P1107	Barometric Pressure Sensor Circuit Low Voltage
P1108	Barometric Pressure Sensor Circuit High Voltage
P1109	BARO Sensor Circuit Out of Range High
P1111	Intake air temperature (IAT) sensor - circuit/ intermittent voltage high
P1112	Intake air temperature (IAT) sensor - circuit/ intermittent voltage low
P1114	Engine coolant temperature (ECT) sensor - circuit/ intermittent voltage low
P1115	Engine coolant temperature (ECT) sensor - circuit/ intermittent voltage high
P1116	Engine Coolant Temperature Sensor Performance Problem
P1121	Throttle position (TP) sensor - circuit/ intermittent voltage high
P1122	Throttle position (TP) sensor - circuit/ intermittent voltage low
P1128	Manifold absolute pressure (MAP) sensor - pressure lower than expected

P1129	Manifold absolute pressure (MAP) sensor - pressure higher than expected
P1131	Brake system vacuum sensor – signal malfunction
P1133	Heated oxygen sensor (HO2S) - RH front - insufficient switching
P1134	Heated oxygen sensor (HO2S) - RH front - slow operation
P1149	Air/Fuel Ratio Sensor 1 Circuit Range/Performance
P1153	Heated oxygen sensor (HO2S) - LH front - insufficient switching
P1154	Heated oxygen sensor (HO2S) - LH front - slow operation
P1157	Air/Fuel Ratio Sensor 1 Range/Performance Problem
P1158	Air/Fuel Ratio Sensor 1 Terminal Low Voltage
P1159	Air/Fuel Ratio Sensor 1 AFS+ Terminal Low Voltage
P1162	Air fuel (A/F) sensor - RSX 1 - circuit malfunction
P1163	Air fuel (A/F) sensor - RSX 1 - slow response
P1164	Air fuel (A/F) sensor - RSX 1 - range/ performance problem
P1165	Air/Fuel Ratio Sensor 1 Circuit Range/Performance
P1166	Air fuel (A/F) sensor - RSX 1 - heater circuit malfunction
P1167	Air fuel (A/F) sensor - RSX 1 - heater system malfunction
P1168	Air/Fuel Ratio Sensor Label Low Voltage
P1169	Air/Fuel Ratio Sensor 1 LABEL High Voltage
P1171	Fuel system - mixture lean under acceleration
P1172	Rear A/F Sensor Bank 1 Sensor 1 Circuit Out Of Range High
P1174	AF Sensor 21 Circuit Out Of Range High
P1187	Fuel Tank Temperature Sensor Circuit Low Voltage
P1188	Fuel Tank Temperature Sensor Circuit High Voltage
P1192	Fuel Tank Pressure Sensor Circuit Low Voltage
P1193	Fuel Tank Pressure Sensor Circuit High Voltage
P1201	Cylinder No. 1 - misfire
P1202	Cylinder No. 2 - misfire
P1203	Cylinder No. 3 - misfire

P1204	Cylinder No. 4 - misfire
P1205	Cylinder No. 5 - misfire
P1206	Cylinder No. 6 - misfire
P1233	Turbocharger (TC) boost pressure sensor/barometric pressure (BARO) sensor- signal correlation
P1234	Turbocharger (TC) boost pressure sensor/manifold absolute pressure (MAP) sensor – signal correlation
P1241	Throttle actuator control (TAC) motor - circuit 1 - malfunction
P1242	Throttle actuator control (TAC) motor - circuit 2 - malfunction
P1243	Throttle position (TP) - insufficient
P1244	Closed throttle position (CTP) - insufficient
P1246	Accelerator pedal position (APP) sensor 1 - circuit malfunction
P1247	Accelerator pedal position (APP) sensor 2 - circuit malfunction
P1248	Accelerator pedal position (APP) sensor 1 & 2 - incorrect signals
P1253	VTEC system malfunction
P1257	VTEC System Malfunction
P1258	VTEC System Malfunction
P1259	Camshaft position (CMP) actuator - circuit malfunction
P1271	Accelerator Pedal Position Sensor 1-2 Correlation
P1272	Accelerator Pedal Position Sensor 2-3 Correlation
P1273	Accelerator Pedal Position Sensor 1-3 Correlation
P1275	Accelerator Pedal Position Sensor 1 Circuit
P1279	VTEC control system malfunction - front bank
P1280	Accelerator Pedal Position (APP) Sensor 2 Circuit Malfunction
P1286	Engine Oil Pressure Sensor Stuck Low
P1287	Rocker Arm Oil Pressure Switch Circuit High Voltage

P1288	Rocker Arm Oil Pressure Switch Circuit Low Voltage
P1289	Engine Oil Pressure Sensor Stuck High
P1295	Electronic Throttle Control Power Management Mode
P1297	Electrical load control module - voltage low
P1298	Electrical load control module - voltage high
P1299	Electronic Throttle Control Forced Engine Shut Down Mode
P1300	Random misfire
P1301	Cylinder No. 1 - misfire
P1302	Cylinder No. 2 - misfire
P1303	Cylinder No. 3 - misfire
P1304	Cylinder No. 4 - misfire
P1305	Cylinder No. 5 - misfire
P1306	Cylinder No. 6 - misfire
P1316	Spark plug voltage detection - LH bank - circuit malfunction
P1317	Spark plug voltage detection - RH bank - circuit malfunction
P1318	Spark plug voltage detection module reset - LH bank - reset circuit malfunction
P1319	Spark plug voltage detection module reset - RH bank - reset circuit malfunction
P1324	Knock Sensor Power Source Circuit Low Voltage
P1326	Ignition Control Module Combustion Quality Input Signal
P1336	Crankshaft position (CKP) range/performance problem
P1337	Crankshaft position (CKP) circuit malfunction
P1359	Crankshaft position (CKP) sensor - connector disconnection
P1361	Camshaft position (CMP) intermittent
P1362	Camshaft position (CMP) no signal
P1366	Camshaft position (CMP) intermittent

P1367	Camshaft position (CMP) no signal
P1381	Camshaft position (CMP) range/ performance problem
P1382	Camshaft position (CMP) malfunction
P1386	Camshaft position (CMP) range/ performance problem
P1387	Camshaft position (CMP) malfunction
P1390	G-sensor - intermittent voltage low
P1391	G-sensor - performance problem
P1392	G-sensor - voltage low
P1393	G-sensor - voltage high
P1394	G-sensor - intermittent voltage high
P1399	Random misfire
P1404	EGR Valve Stuck Closed
P1406	Exhaust gas recirculation (EGR) valve position sensor - circuit problem
P1410	Secondary air injection (AIR) system - malfunction
P1413	Secondary Air Injection System Control Solenoid Circuit High Voltage
P1415	AIR pump electrical current sensor - open/ short circuit
P1416	AIR pump electrical current sensor - open circuit
P1420	NOx Adsorptive Catalyst System Efficiency Below Threshold
P1441	Evaporative emission (EVAP) canister purge system - flow detected
P1442	Evaporative emission (EVAP) canister purge system - vacuum switch malfunction
P1450	Two Way Valve Bypass Valve Control Circuit Low Voltage
P1451	Two Way Valve Bypass Valve Control Circuit High Voltage
P1454	Fuel Tank Pressure Sensor Range/Performance Problem
P1456	Evaporative emission (EVAP) canister purge system (fuel tank system) - leak detected

P1457	Evaporative emission (EVAP) canister purge system (canister system) - leak detected
P1459	Evaporative emission (EVAP) canister purge system - switch malfunction
P145A	Evaporative emission (EVAP) canister purge system – incorrect flow
P145B	Evaporative emission (EVAP) canister purge system – non-return valve stuck open
P145C	Evaporative emission (EVAP) canister purge system – incorrect flow
P145D	Evaporative emission (EVAP) canister purge system – incorrect flow
P1460	Fuel Level Sensor Power Supply Circuit
P1486	Thermostat - range/performance problem
P1491	Exhaust gas recirculation (EGR) system - valve lift insufficient
P1498	Exhaust gas recirculation (EGR) valve position sensor - voltage high
P1505	Positive Crankcase Ventilation Air Leakage
P1508	Idle air control (IAC) system - low RPM
P1509	Idle air control (IAC) system - high RPM
P1514	Throttle Position Sensor / Mass Air Flow Sensor Signal Variation
P1516	Throttle Actuator Control Position Performance
P1519	Idle air control (IAC) valve - circuit failure
P1522	Brake Booster Pressure Sensor Circuit Low Voltage
P1523	Brake Booster Pressure Sensor Circuit High Voltage
P1541	Passenger Compartment Heater Standby Signal Circuit Low Input
P1549	Charging System High Voltage
P1571	Brake Switch Circuit Malfunction
P1589	Brake booster pressure sensor – signal malfunction

P15BA	Brake booster pressure sensor – no vacuum
P15BB	Brake booster pressure sensor -leak detected
P15BC	Brake booster vacuum pump – stuck ON
P1607	Engine control module (ECM) - internal circuit failure
P1608	Engine control module (ECM) - internal circuit failure B
P1618	Engine control module (ECM) - internal fault
P1625	Engine Control Module Unexpected Reset
P1640	Engine control module (ECM) - internal fault
P1646	Sensor Supply Voltage Circuit 'C' Malfunction
P1650	Engine Control Module Quad Driver / Output Driver
P1655	AT - signal failure
P1656	Electronic stability programme (ESP) control module - communication malfunction
P1658	Electronic Throttle Control System Control Relay ON Malfunction
P1659	Electronic Throttle Control System Control Relay OFF Malfunction
P1660	AT to ECM - signal failure
P1671	AT to ECM signal - no signal
P1672	AT to ECM signal - signal failure
P1676	ABS/TCS control module - communication malfunction
P1677	ECM to traction control system signal - signal failure
P1678	ABS/TCS control module - communication malfunction
P1681	AT to ECM - signal A - input low
P1682	AT to ECM - signal A - input high
P1683	Throttle Valve Default Position Spring Performance Problem
P1684	Throttle Valve Return Spring Performance Problem
P1686	AT to ECM - signal B - input low
P1687	AT to ECM - signal B - input high
P1690	Traction control system - circuit failure

P1696	Traction control system - voltage low
P1697	Traction control system - voltage high
P16BB	Generator system – low voltage
P16BC	Generator system – low voltage
P16BD	Starter motor relay 2 – malfunction
P16BE	Starter motor relay 1 – malfunction
P16BF	Starter motor relays 1/2- circuit malfunction
P16C0	Engine control module (ECM) – malfunction
P16D9	Engine control module (ECM) – internal circuit failure
P16DA	Brake booster vacuum pump relay 1 – stuck OFF
P16DB	Brake booster vacuum pump relay 1/2- circuit malfunction
P16DC	Brake booster vacuum pump relay 2 – stuck ON
P16DD	Brake booster vacuum pump relay 1 – stuck ON
P1705	AT - gear shift malfunction
P1706	AT - gear shift malfunction
P1709	AT - range position switch
P1710	AT - 1st gear hold switch
P1717	Transmission Range Switch Switch Circuit Open
P1730	Problem In Shift Control System
P1731	Problem In Shift Control System
P1732	Problem In Shift Control System
P1733	Problem In Shift Control System
P1734	Problem In Shift Control System
P1738	Automatic transmission
P1739	AT - 3rd clutch pressure switch
P1740	AT - 4th clutch pressure switch
P1743	AT – gear shift malfunction
P1744	AT – gear shift malfunction
P1745	AT – gear shift malfunction
P1750	AT - hydraulic system mechanical malfunction

P1751	AT - hydraulic system mechanical malfunction
P1753	AT - lock-up clutch not engaging/ disengaging
P1758	AT - lock-up clutch not engaging
P1768	AT - lock-up clutch not engaging
P1773	AT - lock-up clutch not engaging
P1778	Shift solenoid (SS) C
P1780	AT – gear shift malfunction
P1786	AT - poor gear shift
P1787	AT - lock-up clutch malfunction
P1788	AT - poor gear shift
P1790	AT - engine control module (ECM)
P1791	AT - lock-up clutch not engaging
P1792	AT - engine control module (ECM)
P1793	Automatic transmission
P1794	Automatic transmission - BARO signal
P1795	Automatic transmission
P1835	AT - kick-down switch always ON
P1850	AT - brake band solenoid
P1860	AT - torque converter clutch (TCC) solenoid
P1870	Transmission slip
P1879	Problem in CVT Start Clutch Pressure Control Valve Assembly Circuit

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Codes	Definition
P1009	Air Mass Meter 1/2 Implausible Signal From Load Detection
P1018	Intake Manifold Runner Bank 2 Lower Limit Not Reached
P1020	Fuel pressure - control limit exceeded
P1023	Fuel pressure control valve - short to ground
P1024	Fuel pressure control valve - open circuit
P1025	Fuel pressure control valve - mechanical fault
P1026	Intake manifold air control solenoid - short to positive
P1027	Intake manifold air control solenoid - short to ground
P1028	Intake manifold air control solenoid - open circuit
P1029	Intake manifold air control valve position sensor - upper limit not reached
P1030	Intake manifold air control valve position sensor - lower limit not reached
P1031	Intake manifold air control valve position sensor - specification not attained
P1032	Nitrogen oxides (NOx) sensor - signal too high
P1033	Nitrogen oxides (NOx) sensor - signal too low
P1034	Nitrogen oxides (NOx) sensor - signal outside tolerance
P1035	Nitrogen oxides (NOx) sensor - range/performance problem
P1036	Nitrogen oxides (NOx) heater sensor - short to positive
P1037	Nitrogen oxides (NOx) heater sensor - short to ground
P1038	Nitrogen oxides (NOx) heater sensor - open circuit
P1039	Injector 1, supply voltage - short circuit
P1040	Injector 1, supply voltage - circuit malfunction
P1041	Injector 2, supply voltage - short circuit
P1042	Injector 2, supply voltage - circuit malfunction
P1043	Injector 3, supply voltage - short circuit
P1044	Injector 3, supply voltage - circuit malfunction
P1045	Injector 4, supply voltage - short circuit

P1046	Injector 4, supply voltage - circuit malfunction
P1047	Camshaft position (CMP) actuator, exhaust/ right/rear, Bank 1 - circuit malfunction
P1048	Camshaft position (CMP) actuator, exhaust/ right/rear, Bank 1 - short to positive
P1049	Camshaft position (CMP) actuator, exhaust/ right/rear, Bank 1 - short to ground
P1050	Camshaft position (CMP) actuator, exhaust/ right/rear, Bank 1 - open circuit
P1055	Bank 1 Camshaft Adjustment Short To B+
P1056	Bank 1 Camshaft Adjustment Short To Ground
P1057	Bank 1 Camshaft Adjustment Short To Open Circuit
P1063	Fuel pressure - control limit not reached
P1064	Fuel pressure - mechanical fault
P1065	Fuel pressure - system deviation
P1066	Intake manifold air control solenoid - short to positive
P1067	Intake manifold air control solenoid - short to ground
P1068	Intake manifold air control solenoid - open circuit
P1069	Nitrogen oxides (NOx) sensor - heater control - short to ground
P1070	Nitrogen oxides (NOx) sensor - heater control - short to positive
P1071	Nitrogen oxides (NOx) sensor - heater control - incorrect signal
P1072	Nitrogen oxides (NOx) sensor - heater control - circuit malfunction
P1073	Mass Air Flow Sensor 2 Signal Too Small
P1074	Mass Air Flow Sensor 2 Signal Too Large
P1081	Exhaust Bank 3- Mixture Adaption Range 1 Lower Lean Limit Not Reached
P1082	Exhaust Bank 3- Mixture Adaption Range 2 Lower Lean Limit Not Reached

P1083	Exhaust Bank 3- Mixture Adaption Range 1 Lower Rich Limit Not Reached
P1084	Exhaust Bank 3- Mixture Adaption Range 2 Lower Rich Limit Not Reached
P1085	Exhaust Bank 4- Mixture Adaption Range 1 Lower Lean Limit Not Reached
P1086	Exhaust Bank 4- Mixture Adaption Range 2 Lower Lean Limit Not Reached
P1087	Exhaust Bank 4- Mixture Adaption Range 1 Lower Rich Limit Not Reached
P1088	Exhaust Bank 4- Mixture Adaption Range 2 Lower Rich Limit Not Reached
P1093	Mixture control (MC), Bank 1 - malfunction
P1100	HO2S12 Sensor Circuit Voltage Too Low Air Leak
P1101	Heated oxygen sensor (HO2S) 1, Bank 1 - low voltage/air leak
P1102	Heated oxygen sensor (HO2S) 1, Bank 1 - heater short to positive
P1103	Heated oxygen sensor (HO2S) 1, Bank 1 - heater output too low
P1104	HO2S12 Sensor Circuit Voltage Too Low Air Leak
P1105	Heated oxygen sensor (HO2S) 2, Bank 1 - heater short to positive
P1106	Heated oxygen sensor (HO2S) 1, Bank 2 - low voltage/air leak
P1107	Heated oxygen sensor (HO2S) 1, Bank 2 - heater short to positive
P1109	HO2S22 Sensor Circuit Voltage Too Low Air Leak
P1110	Heated oxygen sensor (HO2S) 2, Bank 2 - heater short to positive
P1111	Heated oxygen sensor (HO2S) control, Bank 1 - system too lean

P1112	Heated oxygen sensor (HO2S) control, Bank 1 - system too rich
P1113	Heated oxygen sensor (HO2S) 1, Bank 1 - heater resistance too high
P1114	Heated oxygen sensor (HO2S) 2, Bank 1 - heater resistance too high
P1115	Heated oxygen sensor (HO2S) 1, Bank 1 - heater short to ground
P1116	Heated oxygen sensor (HO2S) 1, Bank 1 - heater open circuit
P1117	Heated oxygen sensor (HO2S) 2, Bank 1 - heater short to ground
P1118	Heated oxygen sensor (HO2S) 2, Bank 1 - heater open circuit
P1119	Heated oxygen sensor (HO2S) 1, Bank 2 - heater short to ground
P1120	Heated oxygen sensor (HO2S) 1, Bank 2 - heater open circuit
P1121	Heated oxygen sensor (HO2S) 2, Bank 2 - heater short to ground
P1122	Heated oxygen sensor (HO2S) 2, Bank 2 - heater open circuit
P1123	Long Term Fuel Trim Adjustment Bank 1 System Too Rich
P1124	Long Term Fuel Trim Adjustment Bank 1 System Too Lean
P1125	Long Term Fuel Trim Adjustment Bank 2 System Too Rich
P1126	Long Term Fuel Trim Adjustment Bank 2 System Too Lean
P1127	Long term fuel trim, entire speed/load range, Bank 1 - system too rich
P1128	Long term fuel trim, entire speed/load range, Bank 1 - system too lean
P1129	Long term fuel trim, entire speed/load range, Bank 2 - system too rich

P1130	Long term fuel trim, entire speed/load range, Bank 2 - system too lean
P1131	Heated oxygen sensor (HO2S) 1, Bank 1 - heater resistance too high
P1132	Heated oxygen sensor (HO2S) 1, Bank 1 & 2 - heater control - circuit high
P1133	Heated oxygen sensor (HO2S) 1, Bank 1 & 2 - heater control - circuit low
P1134	HO2S Heater Circuit- Bank 1 & 2 Sensor 2 Short To B+
P1135	HO2S Heater Circuit- Bank 1 & 2 Sensor 2 Electrical Malfunction
P1136	Long term fuel trim, idling, Bank 1 - system too lean
P1137	Long term fuel trim, idling, Bank 1 - system too rich
P1138	Long term fuel trim, idling, Bank 2 - system too lean
P1139	Long term fuel trim, idling, Bank 2 - system too rich
P1140	Heated oxygen sensor (HO2S) 2, Bank 2 - heater resistance too high
P1141	Load calculation - implausible value
P1142	Load calculation - too low
P1143	Load calculation - too high
P1144	Mass air flow (MAF) sensor, Bank 1 - open circuit/short to ground
P1145	Mass air flow (MAF) sensor, Bank 1 - short to positive
P1146	Mass air flow (MAF) sensor, Bank 1 - supply voltage
P1147	Heated oxygen sensor (HO2S) 1, Bank 2 - lambda regulation, system too lean
P1148	Heated oxygen sensor (HO2S) 1, Bank 2 - lambda regulation, system too rich
P1149	Heated oxygen sensor (HO2S) 1, Bank 1 - implausible lambda control value
P1150	Heated oxygen sensor (HO2S) 1, Bank 2 - implausible lambda control value

P1151	Long term fuel trim 1, Bank 1 - below lean limit
P1152	Long term fuel trim 2, Bank 1 - below lean limit
P1153	Heated oxygen sensor (HO2S) 2, Bank 1 & 2 - interchanged
P1154	Manifold Switch Over Malfunction
P1155	Manifold absolute pressure (MAP) sensor - short to positive
P1156	Manifold absolute pressure (MAP) sensor - open circuit/short to ground
P1157	Manifold absolute pressure (MAP) sensor - supply voltage
P1158	Manifold absolute pressure (MAP) sensor - range/performance problem
P1159	Mass air flow (MAF) sensor, Bank 1 & 2 - implausible ratio
P1160	Intake air temperature (IAT) sensor - short to ground
P1161	Intake air temperature (IAT) sensor - open circuit/short to positive
P1162	Fuel temperature sensor - short to ground
P1163	Fuel temperature sensor - open circuit/short to positive
P1164	Fuel temperature sensor - range/performance problem
P1165	Long term fuel trim 1, Bank 1 - above rich limit
P1166	Long term fuel trim 2, Bank 1 - above rich limit
P1167	Mass air flow (MAF) sensor, Bank 2 - range/performance problem
P1168	Mass air flow (MAF) sensor, Bank 2 - low input
P1169	Mass air flow (MAF) sensor, Bank 2 - high input
P1170	Mass air flow (MAF) sensor, Bank 2 - supply voltage
P1171	Throttle motor position sensor 2 - range/performance problem
P1172	Throttle motor position sensor 2 - low input
P1173	Throttle motor position sensor 2 - high input
P1174	Fuel measurement system, Bank 1 - injection timing incorrect

P1176	Lambda correction after catalyst, Bank 1 - control limit reached
P1177	Lambda correction after catalyst, Bank 2 - control limit reached
P1178	Heated oxygen sensor (HO2S) 1, Bank 1, pump current - open circuit
P1179	Heated oxygen sensor (HO2S) 1, Bank 1, pump current - short to ground
P1180	Heated oxygen sensor (HO2S) 1, Bank 1, pump current - short to positive
P1181	Heated oxygen sensor (HO2S) 1, Bank 1, reference voltage - open circuit
P1182	Heated oxygen sensor (HO2S) 1, Bank 1, reference voltage - short to ground
P1183	Heated oxygen sensor (HO2S) 1, Bank 1, reference voltage - short to positive
P1184	Linear Oxygen Sensor Common Ground Open Circuit
P1185	Linear Oxygen Sensor Common Ground Short To Ground
P1186	Linear Oxygen Sensor Common Ground Short To Positive
P1187	Heated oxygen sensor (HO2S) 1, Bank 1 or 2 - circuit malfunction
P1188	Linear O2 Sensor Compensation Resistor Short to Ground
P1189	Linear O2 Sensor Compensation Resistor Short to B+
P1190	Heated oxygen sensor (HO2S) 1, Bank 1, reference voltage - range/performance problem
P1191	Heated oxygen sensor (HO2S) 1, Bank 1 & 2 - interchanged
P1192	Fuel pressure sensor - supply voltage
P1193	Fuel pressure sensor - open circuit/ short to positive
P1194	Fuel pressure control valve - short to positive
P1195	Fuel pressure control valve - open circuit/short to ground
P1196	Heated oxygen sensor (HO2S) 1, Bank 1, heater circuit malfunction

P1197	Heated oxygen sensor (HO2S) 1, Bank 2, heater circuit malfunction
P1198	Heated oxygen sensor (HO2S) 2, Bank 1, heater circuit malfunction
P1199	Heated oxygen sensor (HO2S) 2, Bank 2, heater circuit malfunction
P1200	Turbocharger Recirculating Valve Mechanical Malfunction
P1201	Injector 1 - circuit malfunction
P1202	Injector 2 - circuit malfunction
P1203	Injector 3 - circuit malfunction
P1204	Injector 4 - circuit malfunction
P1205	Injector 5 - circuit malfunction
P1206	Injector 6 - circuit malfunction
P1207	Injector 7 - circuit malfunction
P1208	Injector 8 - circuit malfunction
P1209	Intake Valves For Cylinder Shut Off Short Circuit To Ground
P1210	Intake Valves For Cylinder Shut Off Short to B+
P1211	Intake Valves For Cylinder Shut Off Open Circuit
P1213	Injector 1 - short to positive
P1214	Injector 2 - short to positive
P1215	Injector 3 - short to positive
P1216	Injector 4 - short to positive
P1217	Injector 5 - short to positive
P1218	Injector 6 - short to positive
P1219	Injector 7 - short to positive
P1220	Injector 8 - short to positive
P1221	Cylinder Shut Off Exhaust Valves Short Circuit To Ground
P1222	Cylinder Shut Off Exhaust Valves Short To B+
P1223	Cylinder Shut Off Exhaust Valves Open Circuit
P1225	Injector 1 - short to ground
P1226	Injector 2 - short to ground

P1227	Injector 3 - short to ground
P1228	Injector 4 - short to ground
P1229	Injector 5 - short to ground
P1230	Injector 6 - short to ground
P1231	Injector 7 - short to ground
P1232	Injector 8 - short to ground
P1237	Injector 1 - open circuit
P1238	Injector 2 - open circuit
P1239	Injector 3 - open circuit
P1240	Injector 4 - open circuit
P1241	Injector 5 - open circuit
P1242	Injector 6 - open circuit
P1243	Injector 7 - open circuit
P1244	Injector 8 - open circuit
P1245	Injector needle lift sensor - short to ground
P1246	Injector needle lift sensor - range/performance problem
P1247	Injector needle lift sensor - open circuit/short to positive
P1248	Start of injection - control difference
P1249	Fuel Consumption Signal Electrical Fault In Circuit
P1250	Fuel tank level sensor - low input
P1251	Fuel injection timing solenoid - short to positive
P1252	Fuel injection timing solenoid - open circuit/short to ground
P1253	Instrument panel, fuel consumption signal - short to ground
P1254	Instrument panel, fuel consumption signal - short to positive
P1255	Engine coolant temperature (ECT) sensor - short to ground
P1256	Engine coolant temperature (ECT) sensor - open circuit/short to positive
P1257	Engine Coolant System Valve Open

P1258	Engine Coolant System Valve Short To B+
P1259	Engine Coolant System Valve Short To Ground
P1260	Injector 1 - implausible signal
P1261	Injector 1 - control limit exceeded
P1262	Injector 1 - control limit not reached
P1263	Injector 2 - implausible signal
P1264	Injector 2 - control limit exceeded
P1265	Injector 2 - control limit not reached
P1266	Injector 3 - implausible signal
P1267	Injector 3 - control limit exceeded
P1268	Injector 3 - control limit not reached
P1269	Injector 4 - implausible signal
P1270	Injector 4 - control limit exceeded
P1271	Injector 4 - control limit not reached
P1278	Fuel metering solenoid - short to positive
P1279	Fuel metering solenoid - open circuit/short to ground
P1281	Fuel metering solenoid - short to ground
P1282	Fuel metering solenoid - open circuit
P1285	Fuel Injection Air Control Valve Circuit Short To Ground
P1287	Turbocharger (TC) bypass valve - open circuit
P1288	Turbocharger (TC) bypass valve - short to positive
P1289	Turbocharger (TC) bypass valve - short to ground
P1290	Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input
P1291	Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input
P1292	Engine coolant thermostat - open circuit
P1293	Engine coolant thermostat - short to positive
P1294	Engine coolant thermostat - short to ground
P1295	Turbocharger (TC), bypass - flow malfunction
P1296	Engine cooling system - malfunction

P1297	Turbocharger (TC)/throttle valve, hose connection - pressure loss
P1299	Fuel metering solenoid - circuit malfunction
P1300	Random/multiple cylinder(s) - misfire detected
P1320	Knock Sensor 2 Circuit Short To Ground
P1321	Knock Sensor 3 Signal Too Low
P1322	Knock Sensor 3 Signal Too High
P1323	Knock Sensor 4 Signal Too Low
P1324	Knock Sensor 4 Signal Too Low
P1325	Knock control, cylinder 1 - control limit reached
P1326	Knock control, cylinder 2 - control limit reached
P1327	Knock control, cylinder 3 - control limit reached
P1328	Knock control, cylinder 4 - control limit reached
P1329	Knock control, cylinder 5 - control limit reached
P1330	Knock control, cylinder 6 - control limit reached
P1331	Knock control, cylinder 7 - control limit reached
P1332	Knock control, cylinder 8 - control limit reached
P1335	Engine torque control - limit reached
P1336	Engine torque monitoring - control limit exceeded
P1337	Camshaft position (CMP) sensor, Bank 1 - short to ground
P1338	Camshaft position (CMP) sensor, Bank 1 - open circuit/short to positive
P1339	Crankshaft position (CKP) sensor/ engine speed (RPM) sensor - interchanged
P1340	Camshaft position (CMP) sensor 1/Bank 1/ crankshaft position (CKP) sensor - out of sequence
P1341	Ignition amplifier, primary circuit 1 - short to ground
P1342	Ignition amplifier, primary circuit 1 - short to positive
P1343	Ignition amplifier, primary circuit 2 - short to ground
P1344	Ignition amplifier, primary circuit 2 - short to positive
P1345	Ignition amplifier, primary circuit 3 - short to ground

P1346	Ignition amplifier, primary circuit 3 - short to positive
P1347	Camshaft position (CMP) sensor 2/Bank 2/ crankshaft position (CKP) sensor - out of sequence
P1348	Ignition amplifier, primary circuit 1 - open circuit
P1349	Ignition amplifier, primary circuit 2 - open circuit
P1350	Ignition amplifier, primary circuit 3 - open circuit
P1351	Camshaft position (CMP) sensor, Bank 1 - range/performance problem
P1354	Fuel quantity adjuster position sensor
P1355	Ignition coil/amplifier, cylinder 1 - open circuit
P1356	Ignition coil/amplifier, cylinder 1 - short to positive
P1357	Ignition coil/amplifier, cylinder 1 - short to ground
P1358	Ignition coil/amplifier, cylinder 2 - open circuit
P1359	Ignition coil/amplifier, cylinder 2 - short to positive
P1360	Ignition coil/amplifier, cylinder 2 - short to ground
P1361	Ignition coil/amplifier, cylinder 3 - open circuit
P1362	Ignition coil/amplifier, cylinder 3 - short to positive
P1363	Ignition coil/amplifier, cylinder 3 - short to ground
P1364	Ignition coil/amplifier, cylinder 4 - open circuit
P1365	Ignition coil/amplifier, cylinder 4 - short to positive
P1366	Ignition coil/amplifier, cylinder 4 - short to ground
P1367	Ignition coil/amplifier, cylinder 5 - open circuit
P1368	Ignition coil/amplifier, cylinder 5 - short to positive
P1369	Ignition coil/amplifier, cylinder 5 - short to ground
P1370	Ignition coil/amplifier, cylinder 6 - open circuit
P1371	Ignition coil/amplifier, cylinder 6 - short to positive
P1372	Ignition coil/amplifier, cylinder 6 - short to ground
P1373	Ignition coil/amplifier, cylinder 7 - open circuit
P1374	Ignition coil/amplifier, cylinder 7 - short to positive
P1375	Ignition coil/amplifier, cylinder 7 - short to ground
P1376	Ignition coil/amplifier, cylinder 8 - open circuit

P1377	Ignition coil/amplifier, cylinder 8 - short to positive
P1378	Ignition coil/amplifier, cylinder 8 - short to ground
P1385	Engine control module (ECM) - defective
P1386	Engine control module (ECM), knock control - defective
P1387	Engine control module (ECM), BARO sensor - defective
P1388	Engine control module (ECM), ETS - defective
P1389	Engine control module (ECM) 2 - defective
P1391	Camshaft position (CMP) sensor 2/ Bank 2 - short to ground
P1392	Camshaft position (CMP) sensor 2/ Bank 2 - open circuit/short to positive
P1393	Ignition amplifier, primary circuit 1 - circuit malfunction
P1394	Ignition amplifier, primary circuit 2 - circuit malfunction
P1395	Ignition amplifier, primary circuit 3 - circuit malfunction
P1397	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - control limit reached
P1398	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to ground
P1399	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to positive
P1400	Exhaust gas recirculation (EGR) valve/solenoid, Bank 1 - circuit malfunction
P1401	Exhaust gas recirculation (EGR) valve/solenoid, Bank 1 - short to ground
P1402	Exhaust gas recirculation (EGR) valve/solenoid, Bank 1 - short to positive
P1403	Exhaust gas recirculation (EGR) system - control difference
P1404	Exhaust gas recirculation (EGR) system - basic setting
P1406	EGR Temperature Sensor Signal Range Performance
P1407	Exhaust gas recirculation temperature (EGRT) sensor - low input

P1408	Exhaust gas recirculation temperature (EGRT) sensor - high input
P1409	Evaporative emission (EVAP) canister purge valve - circuit malfunction
P1410	Evaporative emission (EVAP) canister purge valve - short to positive
P1411	Secondary air injection (AIR) system, Bank 2 - insufficient flow detected
P1412	EGR Differential Pressure Sensor Signal Too Low
P1413	EGR Differential Pressure Sensor Signal Too High
P1414	Secondary air injection (AIR) system, Bank 2 - leak detected
P1415	Exhaust gas recirculation (EGR) valve position sensor - lower limit exceeded
P1416	Exhaust gas recirculation (EGR) valve position sensor - upper limit exceeded
P1417	Fuel Level Sensor Circuit Signal Too Low
P1418	Fuel Level Sensor Circuit Signal Too High
P1420	Secondary air injection (AIR) valve/solenoid - circuit malfunction
P1421	Secondary air injection (AIR) valve/solenoid - short to ground
P1422	Secondary air injection (AIR) valve/solenoid - short to positive
P1423	Secondary air injection (AIR) system, Bank 1 - insufficient flow detected
P1424	Secondary air injection (AIR) system, Bank 1 - leak detected
P1425	Evaporative emission (EVAP) canister purge valve - short to ground
P1426	Evaporative emission (EVAP) canister purge valve - open circuit
P1427	Vacuum pump, brakes - short to positive

P1428	Vacuum pump, brakes - short to ground
P1429	Vacuum pump, brakes - open circuit
P1430	Vacuum pump, brakes - open circuit/ short to positive
P1431	Vacuum pump, brakes - open circuit/ short to ground
P1432	Secondary air injection (AIR) valve/solenoid - open circuit
P1433	Secondary air injection (AIR) pump relay - open circuit
P1434	Secondary air injection (AIR) pump relay - short to positive
P1435	Secondary air injection (AIR) pump relay - short to ground
P1436	Secondary air injection (AIR) pump relay - circuit malfunction
P1437	Exhaust gas recirculation (EGR) valve/solenoid, Bank 2 - short to positive
P1438	Exhaust gas recirculation (EGR) valve/solenoid, Bank 2 - open circuit/short to ground
P1439	Exhaust gas recirculation (EGR) valve position sensor - basic setting
P1440	Exhaust gas recirculation (EGR) valve - open circuit
P1441	Exhaust gas recirculation (EGR) valve/solenoid, Bank 1 - open circuit/short to ground
P1442	Exhaust gas recirculation (EGR) valve position sensor - high input
P1443	Exhaust gas recirculation (EGR) valve position sensor - low input
P1444	Exhaust gas recirculation (EGR) valve position sensor - range/performance problem
P1445	Catalyst Temperature Sensor 2 Circuit Range/Performance
P1446	Catalyst Temperature Circuit Short To Ground
P1447	Catalyst Temperature Circuit Open/Short to B+
P1448	Catalyst Temperature Sensor 2 Circuit Short to Ground
P1449	Catalyst Temperature Sensor 2 Circuit Open/Short to B+
P1450	Secondary air injection (AIR) system - short to positive
P1451	Secondary air injection (AIR) system - short to ground

P1452	Secondary air injection (AIR) system - open circuit
P1453	Exhaust gas recirculation temperature (EGRT) sensor 1/Bank 1 - open circuit/short to positive
P1454	Exhaust gas recirculation temperature (EGRT) sensor 1/Bank 1 - short to ground
P1455	Exhaust gas recirculation temperature (EGRT) sensor 1/Bank 1 - range/performance problem
P1456	Exhaust gas recirculation temperature (EGRT) control, Bank 1 - control limit reached
P1457	Exhaust gas recirculation temperature (EGRT) sensor 2/Bank 2 - open circuit/short to positive
P1458	Exhaust gas recirculation temperature (EGRT) sensor 2/Bank 2 - short to ground
P1459	Exhaust gas recirculation temperature (EGRT) sensor 2/Bank 2 - range/performance problem
P1460	Exhaust gas recirculation temperature (EGRT) control, Bank 2 - control limit reached
P1461	Exhaust gas recirculation temperature (EGRT) control, Bank 1 - range/performance problem
P1462	Exhaust gas recirculation temperature (EGRT) control, Bank 2 - range/performance problem
P1465	Additive Pump Short Circuit to B+
P1466	Additive Pump Open/Short to Ground
P1467	EVAP Canister Purge Solenoid Valve Short Circuit to B+
P1468	EVAP Canister Purge Solenoid Valve Short Circuit to Ground
P1469	EVAP Canister Purge Solenoid Valve Open Circuit
P1470	EVAP Control System LDP Circuit Electrical Malfunction
P1471	EVAP Control System LDP Circuit Short to Positive
P1472	EVAP Control System LDP Circuit Short To Ground
P1473	EVAP Control System LDP Open Circuit
P1474	EVAP Canister Purge Solenoid Valve Electrical Malfunction

P1475	EVAP Control System LDP Malfunction/Signal Circuit Open
P1476	EVAP Control System LDP Malfunction/Insufficient Vacuum
P1477	EVAP Control System LDP Malfunction
P1478	EVAP Control System LDP Clamped Tube Detected
P1479	Vacuum system, brakes - mechanical fault
P1482	Secondary Air Injection Pump Relay 2 Short To B+
P1483	Secondary Air Injection Pump Relay 2 Short To Ground
P1484	Secondary Air Injection Pump Relay 2 Electrical Circuit Malfunction
P1489	EVAP Canister Purge Regulator Valve 2 Short To B+
P1490	EVAP Canister Purge Regulator Valve 2 Short To Ground
P1491	EVAP Canister Purge Regulator Valve 2 Open Circuit
P1493	Low Pressure Pump For Brake Power Too Low
P1494	EVAP canister purge valve 2 – incorrect flow detected
P1497	Secondary Air System Bank 3 Flow Fault
P1500	Fuel pump relay - circuit malfunction
P1501	Fuel pump relay - short to ground
P1502	Fuel pump relay - short to positive
P1503	Alternator load signal
P1504	Intake system - leak detected
P1505	Closed throttle position (CTP) switch - does not close
P1506	Closed throttle position (CTP) switch - does not open
P1507	Idle speed control (ISC) - lower limit reached
P1508	Idle speed control (ISC) - upper limit reached
P1509	Idle air control (IAC) valve - circuit malfunction
P1510	Idle air control (IAC) valve - short to positive
P1511	Intake manifold air control solenoid 1 - current circuit
P1512	Intake manifold air control solenoid 1 - short to positive
P1513	Intake manifold air control solenoid 2 - short to positive
P1514	Intake manifold air control solenoid 2 - short to ground

P1515	Intake manifold air control solenoid 1 - short to ground
P1516	Intake manifold air control solenoid 1 - open circuit
P1517	Engine control relay - circuit malfunction
P1518	Engine control relay - short to positive
P1519	Camshaft position (CMP) control, Bank 1 - malfunction
P1520	Intake manifold air control solenoid 2 - open circuit
P1521	Intake Manifold Changeover Valve 2 Circuit Electrical Malfunction
P1522	Camshaft position (CMP) control, Bank 2 - malfunction
P1523	SRS crash signal received
P1524	Fuel pump relay - open circuit/short to ground
P1525	Camshaft position (CMP) actuator, Bank 1 - circuit malfunction
P1526	Camshaft position (CMP) actuator, Bank 1 - short to positive
P1527	Camshaft position (CMP) actuator, Bank 1 - short to ground
P1528	Camshaft position (CMP) actuator, Bank 1 - open circuit
P1529	Camshaft position (CMP) actuator - short to positive
P1530	Camshaft position (CMP) actuator - short to ground
P1531	Camshaft position (CMP) actuator - open circuit
P1532	Idle control - lean running speed below specification
P1533	Camshaft position (CMP) actuator, Bank 2 - circuit malfunction
P1534	Camshaft position (CMP) actuator, Bank 2 - short to positive
P1535	Camshaft position (CMP) actuator, Bank 2 - short to ground
P1536	Camshaft position (CMP) actuator, Bank 2 - open circuit
P1537	Fuel shut-off solenoid - malfunction
P1538	Fuel shut-off solenoid - open circuit/short to ground

P1539	Clutch pedal position (CPP) switch - range/performance problem
P1540	Vehicle speed signal - high input
P1541	Fuel pump relay - open circuit
P1542	Throttle motor position sensor 1 - range/performance problem
P1543	Throttle motor position sensor 1 - low input
P1544	Throttle motor position sensor 1 - high input
P1545	Throttle valve control - malfunction
P1546	Turbocharger (TC) wastegate regulating valve - short to positive
P1547	Turbocharger (TC) wastegate regulating valve - short to ground
P1548	Turbocharger (TC) wastegate regulating valve - open circuit
P1549	Turbocharger (TC) wastegate regulating valve - open circuit/short to ground
P1550	Turbocharger (TC) pressure - control difference
P1551	Barometric Pressure Sensor Circuit Short to B+
P1552	Barometric Pressure Sensor Circuit Open/Short to Ground
P1553	Manifold absolute pressure (MAP) sensor/ barometric pressure (BARO) sensor - range/ performance problem
P1554	Throttle control unit - basic setting conditions
P1555	Turbocharger (TC) pressure - upper limit exceeded
P1556	Turbocharger (TC) pressure - control limit not reached
P1557	Turbocharger (TC) pressure - control limit exceeded
P1558	Idle speed control (ISC) actuator/throttle motor - circuit malfunction
P1559	Throttle control unit - basic setting malfunction
P1560	Maximum engine RPM exceeded
P1561	Fuel quantity adjuster - control difference

P1562	Fuel quantity adjuster - upper stop value
P1563	Fuel quantity adjuster - lower stop value
P1564	Throttle control unit - voltage low during basic setting
P1565	Throttle control unit - lower stop not reached
P1566	AC compressor, load signal - implausible signal
P1567	Load Signal from A/C Compressor No Signal
P1568	Throttle control unit - mechanical fault
P1569	Cruise control master switch
P1570	Engine control module (ECM) - immobilizer active
P1571	Engine mounting control solenoid, Bank 2 - short to positive
P1572	Engine mounting control solenoid, Bank 2 - short to ground
P1573	Engine mounting control solenoid, Bank 2 - open circuit
P1575	Engine mounting control solenoid, Bank 1 - short to positive
P1576	Engine mounting control solenoid, Bank 1 - short to ground
P1577	Engine mounting control solenoid, Bank 1 - open circuit
P1579	Throttle control unit - basic setting
P1580	Throttle motor, Bank 1 - circuit malfunction
P1581	Throttle control unit - basic setting
P1582	Idle speed adaptation - limit reached
P1586	Engine mounting control solenoid, Bank 1 & 2 - short to positive
P1589	AC/heater air temperature control switch - short to ground
P1590	AC/heater air temperature control switch - open circuit
P1592	Barometric pressure (BARO) sensor/manifold absolute pressure (MAP) sensor - implausible ratio
P1593	Altitude adoption - signal outside tolerance

P1599	Idle control - lean running speed above specification
P1600	Engine control module (ECM) - supply voltage low from ignition switch
P1601	Engine control module (ECM) - supply voltage
P1602	Engine control module (ECM) - supply voltage low from battery
P1603	Engine control module (ECM) - defective
P1604	Engine control module (ECM) - defective
P1606	Rough road signal - circuit malfunction
P1608	Power steering pressure (PSP) switch - circuit malfunction
P1609	Engine control module (ECM) - crash switch-off triggered
P1610	Engine control module (ECM) - defective
P1611	Malfunction indicator lamp (MIL) - short to ground
P1612	Engine control module (ECM) - coding
P1613	Malfunction indicator lamp (MIL) - open circuit/short to positive
P1615	Engine oil temperature (EOT) sensor - range/performance problem
P1616	Glow plug warning lamp - short to positive
P1617	Glow plug warning lamp - open circuit/short to ground
P1618	Glow plug relay - short to positive
P1619	Glow plug relay - open circuit/short to ground
P1620	Instrument panel, ECT signal - open circuit/short to positive
P1621	Instrument panel, ECT signal - short to ground
P1622	Instrument panel, ECT signal - implausible signal
P1623	CAN data bus - no signal
P1624	Malfunction indicator lamp (MIL) - request signal active
P1625	CAN data bus, TCM - incorrect signal
P1626	CAN data bus, TCM - no signal
P1629	CAN data bus, cruise control - no signal

P1630	Accelerator pedal position (APP) sensor 1 - low input
P1631	Accelerator pedal position (APP) sensor 1 - high input
P1632	Accelerator pedal position (APP) sensor - supply voltage
P1633	Accelerator pedal position (APP) sensor 2 - low input
P1634	Accelerator pedal position (APP) sensor 2 - high input
P1635	CAN data bus, AC - no signal
P1636	CAN data bus, SRS - no signal
P1637	CAN data bus, electronic CE - no signal
P1639	Accelerator pedal position (APP) sensor 1/2 - range/performance problem
P1640	Engine control module (ECM) - defective
P1642	SRS control module - system malfunction
P1645	CAN data bus, 4WD - no signal
P1648	CAN data bus - defective
P1649	CAN data bus, ABS - no signal
P1650	CAN data bus, instrumentation - no signal
P1652	Transmission control module (TCM) - system malfunction
P1653	ABS control module - system malfunction
P1654	Instrumentation control module - system malfunction
P1656	AC signal - short to ground
P1657	AC signal - short to positive
P1658	CAN data bus, cruise control - incorrect signal
P1659	Engine coolant blower motor, speed 1 - short to positive
P1660	Engine coolant blower motor, speed 1 - short to ground
P1661	Engine coolant blower motor, speed 2 - short to positive
P1662	Engine coolant blower motor, speed 2 - short to ground
P1663	Injector, activation - short to positive
P1664	Injector, activation - current circuit
P1665	Injector - mechanical fault
P1666	Injector 1 - current circuit

P1667	Injector 2 - current circuit
P1668	Injector 3 - current circuit
P1669	Injector 4 - current circuit
P1672	Engine coolant blower motor, speed 1 - open circuit/short to ground
P1674	CAN data bus, instrumentation - incorrect signal
P1676	ETS warning lamp - circuit malfunction
P1677	ETS warning lamp - short to positive
P1678	ETS warning lamp - short to ground
P1679	ETS warning lamp - open circuit
P1680	Limp-home mode - active
P1681	Engine control module (ECM) - programming incomplete
P1682	CAN data bus, ABS - implausible signal
P1683	CAN data bus, SRS - implausible signal
P1690	Malfunction indicator lamp (MIL) - circuit malfunction
P1691	Malfunction indicator lamp (MIL) - open circuit
P1692	Malfunction indicator lamp (MIL) - short to ground
P1693	Malfunction indicator lamp (MIL) - short to positive
P1696	CAN data bus, steering column electronics - incorrect signal
P1698	Check DTC Memory Of Steering Column ECU
P1699	Engine control module (ECM) – programmed for cruise control
P1740	Clutch Temperature Monitoring
P1745	Solenoid valves, supply voltage – short to positive
P1746	TCM/solenoid valves, supply voltage – circuit malfunction
P1747	Solenoid valves, supply voltage – open circuit/short to ground
P1748	Transmission control module (TCM) – defective
P1750	Transmission control module (TCM) – supply voltage low
P1751	Transmission control module (TCM) – supply voltage high

P1851	CAN data bus, ABS - incorrect signal
P1853	CAN data bus, ABS - incorrect signal
P1854	CAN data bus, ABS - defective
P1857	Load Signal Error Message From ECU
P1900	Engine coolant blower motor, speed 2 - open circuit/short to ground
P1901	Engine coolant blower motor run-on relay - short to positive
P1902	Engine coolant blower motor run-on relay - open circuit/short to ground
P1903	Engine coolant hydraulic blower motor solenoid - short to positive
P1904	Engine coolant hydraulic blower motor solenoid - open circuit/short to ground
P1905	Charge air coolant pump relay - short to positive
P1906	Charge air coolant pump relay - open circuit/short to ground
P1907	Data bus, ECM 1/2 - defective
P1908	Data bus, ECM 1/2 - software version monitoring
P1909	Data bus, ECM 1/2 - no signal from ECM 1
P1910	Data bus, ECM 1/2 - no signal from ECM 2
P1911	Data bus, ECM 1/2 - circuit malfunction
P1912	Brake servo pressure sensor - open circuit/short to positive
P1913	Brake servo pressure sensor - short to ground
P1914	Brake servo pressure sensor - range/performance problem
P1920	Engine mounting control solenoid, Bank 1 & 2 - open circuit/short to ground
P1923	Engine control module (ECM) 2 - malfunction
P1951	Radiator Fan 2 Movement Restricted / Jammed
P1952	Turbocharger Control Module 1 Defective
P1953	Turbocharger Control Module 2 Defective

P1996	Friction Too High Intake Camshaft Adjustment Bank 1
P1997	Friction Too High Exhaust Camshaft Adjustment Bank 1
P1998	Friction Too High Intake Camshaft Adjustment Bank 2
P1999	Friction Too High Exhaust Camshaft Adjustment Bank 2

# BMW



Codes	Definition
P1001	WT control circuit malfunction – no signal, bank 1
P1002	VVT sensor circuit, solenoid loss, bank 1
P1003	VVT sensor circuit malfunction – no input, bank 1
P1004	VVT supply voltage circuit malfunction – high input, bank 1
P1005	VVT self-test, bank 1 – adaptive learning – positions not stored
P1006	WT self-test – out of range, bank 1
P1007	VVT self-test – out of range, bank 1
P1008	VVT control circuit , bank 1 – diagnostic fault
P1009	VVT sensor circuit, bank 1 -diagnostic fault
P1010	VVT control motor, bank 1 – position circuit malfunction
P1011	VVT control circuit – current too high
P1012	WT control circuit, bank 1– high input
P1013	VVT control circuit, bank 1– low input
P1014	WT control motor, bank 1 – supply voltage high input
P1015	WT control motor, bank 1 – supply voltage low input
P1017	VVT control module – internal fault, current too high
P1018	VVT control module – internal fault, voltage low
P1019	VVT starting position/rest position comparison – circuit malfunction, bank 1
P101A	WT overload protection – high input, bank 1
P101B	P101B - Oxygen Sensor Circuit No Activity Detected Bank 2 Sensor 1
P1020	WT overload protection, control motor- current high, bank 1
P1021	WT overload protection – control motor current too high
P1022	WT overload protection – control motor temperature too high
P1023	Fuel Control Mixture Lean Bank 1 Sensor 1
P1024	Fuel Control Mixture Lean Bank 2 Sensor 1

P1025	Fuel Control Mixture Rich Bank 2 Sensor 1
P1026	O2 Sensor Circuit Slow Response in Lean Control Range Bank 1 Sensor 1
P1027	O2 Sensor Circuit Slow Response in Rich Control Range Bank 1 Sensor 1
P1028	Pre-Catalyst Fuel Trim Too Rich Bank 1
P102C	Pre-Catalyst Fuel Trim Too Lean Bank 2
P1030	O2 Sensor Circuit Slow Response in Rich Control Range Bank 2 Sensor 1
P1031	O2 Sensor Circuit Slow Switching From Lean to Rich Bank 1 Sensor 1
P1033	O2 Sensor Circuit Slow Switching From Lean to Rich Bank 2 Sensor 1
P1034	O2 Sensor Circuit Slow Response after Coast Down Fuel Cutoff Bank 1 Sensor 1
P1036	O2 Sensor Circuit Slow Response after Coast Down Fuel Cutoff Bank 2 Sensor 2
P1037	Throttle position sensor (TPS), sensor A and B – range/performance
P1039	Manifold differential pressure (MOP) sensor, bank 1 – pressure above upper limit
P103A	Manifold differential pressure (MOP) sensor, bank 1 – pressure below lower limit
P1040	Engine Coolant Temperature Radiator Outlet Sensor High Input
P1041	Mass Or Volume Air Flow Circuit Low Input Bank 2
P1042	Mass Or Volume Air Flow Circuit High Input Bank 2
P1043	Intake air temperature (IAT) sensor 1, bank 1 – maximum temperature implausible
P1044	Intake air temperature (IAT) sensor 1, bank 1 – minimum temperature implausible
P1045	Heated oxygen sensor (HO2S) 1, bank 2 – open circuit

P1046	Pedal Position 1 Range/Performance Problem
P1047	Pedal Position 1 High Input
P1048	Heated oxygen sensor (HO2S) 1, bank 1 – open circuit
P1049	Heated oxygen sensor (HO2S) 2, bank 2 – dynamic test malfunction
P1050	O2 Sensor Heater Control Circuit Bank 1 Sensor 1
P1051	O2 Sensor Heater Circuit Signal Intermittent Bank 1 Sensor 2
P1052	O2 Sensor Heater Circuit Low Voltage Bank 1 Sensor 1
P1053	O2 Sensor Heater Circuit High Voltage Bank 1 Sensor 1
P1054	O2 Sensor Heater Circuit Signal Intermittent Bank 1 Sensor 2
P1055	O2 Sensor Heater Circuit High Voltage Bank 1 Sensor 2
P1056	Solenoid Valve Running Losses Control Circuit Electrical
P1057	Post catalytic convertor fuel trim (FT), bank 1 – too lean
P1058	Post catalytic convertor fuel trim (FT), bank 2 – too rich
P1059	Post catalytic convertor fuel trim (FT), bank 2 – too lean
P105A	Mass air flow (MAF) sensor – defective
P105B	O2 Sensor Heater Circuit Signal Intermittent Bank 2 Sensor 1
P1060	O2 Sensor Heater Circuit Low Voltage Bank 2 Sensor 1
P1061	O2 Sensor Heater Circuit High Voltage Bank 2 Sensor 1
P1062	O2 Sensor Heater Circuit Low Voltage Bank 2 Sensor 2
P1063	O2 Sensor Heater Circuit High Voltage Bank 2 Sensor 2
P1064	Mass air flow (MAF) sensor – defective
P1068	Fuel Trim Additve Bank 2 Low
P1069	Engine oil temperature (EOT) sensor - range/performance problem
P1070	Fuel Trim Additve Per Ignition Bank 1 Low
P1071	Fuel Trim Additve Per Ignition Bank 1 High
P1072	Fuel Trim Additve Per Ignition Bank 2 Low

P1075	Mass air flow (MAF) sensor – range/ performance
P1076	Ambient Pressure Sensor Learned Value Error
P1077	Ambient Pressure Sensor Rationality Check
P1078	Fuel trim (FT), Bank 1 - range/performance problem
P1079	Fuel Trim Adaptation Additve Bank 2 Malfunction
P107A	Heated oxygen sensor (HO2S) 1, Bank 1 - slow response
P107B	O2 Sensor Slow Response Bank 2
P107C	O2 Sensor Signal Circuit Slow Switching From Rich to Lean Bank 1 Sensor 1
P1080	O2 Sensor Signal Circuit Slow Switching From Rich to Lean Bank 2 Sensor 1
P1081	O2 Sensor Signal Circuit Slow Switching From Rich to Lean Bank 1 Sensor 2
P1082	O2 Sensor Signal Circuit Slow Switching From Rich to Lean Bank 2 Sensor 2
P1083	O2 Sensor Bank 1 Sensor 2 Open Circuit During Coast Down Fuel Cut-off
P1084	O2 Sensor Bank 2 Sensor 2 Open Circuit During Coast Down Fuel Cut-off
P1085	Heated oxygen sensor (HO2S) 2, Bank 2 - heater circuit malfunction
P1086	O2 Sensor Heater Control Circuit Bank 2 Sensor 2
P1087	Fuel trim (FT), Bank 1 - range/performance problem
P1088	Fuel Control Bank 2 Sensor 1
P1090	Pre-Catalyst Fuel Trim System Bank 1
P1091	Pre-Catalyst Fuel Trim System Bank 2
P1092	Post-catalyst Fuel Trim System Bank 1
P1093	Post-catalyst Fuel Trim System Bank 2
P1094	Manifold differential pressure (MOP) sensor, bank 1 – signal high
P1095	Manifold differential pressure (MOP) sensor, bank 1 – signal low

P1096	Fuel pump – speed too high
P1097	Fuel pump – speed too low
P1098	Fuel pump – emergency operation
P1100	Fuel pump – temperature too high
P1104	Pedal Position Sensor 2 High Input
P1105	Fuel pump relay – primary circuit high voltage
P110F	Fuel pump – emergency cut-off
P1112	Fuel Pressure Low
P1116	Charge Air Pressure Actuator Short Circuit To Ground
P1117	Engine torque difference Bank 1 to 2 - malfunction
P1118	Ambient Air Pressure Sensor Electrical
P111E	Switching Solenoid for Air Assisted Injection Valves Bank 1 Control Circuit Signal Low
P111F	Switching Solenoid for Air Assisted Injection Valves Bank 2 Control Circuit Electrical
P1120	Switching Solenoid for Air Assisted Injection Valves Bank 2 Control Circuit Signal Low
P1121	Switching Solenoid for Air Assisted Injection Valves Bank 2 Control Circuit Signal High
P1122	Camshaft position (CMP) sensor A, bank 1 – timing error
P1123	Ignition system diagnostic monitor, cylinder 1 – duration too short
P1124	Ignition system diagnostic monitor, cylinder 2 – duration too short
P112B	Ignition system diagnostic monitor, cylinder 3 – duration too short
P112C	Ignition system diagnostic monitor, cylinder 4 – duration too short
P1130	Ignition system diagnostic monitor, cylinder 6 – duration too short
P1131	A' Camshaft Position Plausibility
P1132	Fuel System Error

P1134	B' Camshaft Position Plausibility
P1135	Knock sensor (KS) 2, bank 1 – low input
P1136	Knock sensor (KS) 2, bank 1 – high input
P1137	Knock Sensor 4 Low Input
P1138	Knock Sensor 4 High Input
P1139	Multiple Cylinder Misfire During Start
P113A	Multiple Cylinder Misfire With Fuel Cut-off
P113B	Misfire During Start Cylinder 1
P1140	Misfire Cylinder 1 With Fuel Cut-off
P1145	Misfire During Start Cylinder 2
P114A	Misfire Cylinder 2 With Fuel Cut-off
P114B	Misfire During Start Cylinder 3
P114C	Misfire Cylinder 3 With Fuel Cut-off
P114D	Misfire During Start Cylinder 4
P114F	Misfire Cylinder 4 With Fuel Cut-Off
P1150	Misfire During Start Cylinder 5
P1151	Misfire Cylinder 5 With Fuel Cut-Off
P1152	Misfire During Start Cylinder 6
P1153	Misfire Cylinder 6 With Fuel Cut-Off
P1155	Misfire During Start Cylinder 7
P1156	Misfire Cylinder 7 With Fuel Cut-Off
P1157	Misfire During Start Cylinder 8
P1159	Misfire Cylinder 8 With Fuel Cut-Off
P115A	Misfire Cylinder 9 With Fuel Cut-Off
P115B	Knock sensor (KS) 2, bank 1 – range/performance
P115C	Misfire During Start Cylinder 10
P1160	Misfire Cylinder 10 With Fuel Cut-Off
P1161	Misfire During Start Cylinder 11
P1162	Misfire Cylinder 11 With Fuel Cut-Off
P1163	Misfire During Start Cylinder 12

P1164	Misfire Cylinder 12 With Fuel Cut-Off
P1165	Ignition system diagnostic monitor – electrical malfunction
P116C	Knock Sensor 3 Circuit
P116E	Knock Sensor 4 Circuit
P1171	Knock sensor(s) (KS) - circuit malfunction
P1172	Crankshaft position (CKP) sensor – timing plausibility
P1173	Camshaft Position Sensor 'B' Circuit Bank 1
P1174	Heated Catalyst Battery Voltage or Current too Low During Heating Bank 1
P1175	Heated Catalyst Current Too High During Heating Bank 1
P1176	Heated Catalyst Power Switch Overtemperature Condition Bank 1
P1177	Carbon Canister Shut Off Valve Control Circuit Electrical
P1178	Heated Catalyst Current too High During Heating Bank 2
P1179	Heated Catalyst Power Switch Overtemperature Condition Bank 2
P1180	Heated Catalyst Internal Control Module Checksum/ROM Error
P1181	Fuel level signal, 1 – incorrect value
P1182	Fuel level signal, 2 – incorrect value
P1183	Secondary air injection (AIR), bank 1, bank 2 – insufficient flow detected
P1186	Fuel injection – injector cut-off
P1187	Secondary air injection (AIR), pump relay – signal low
P1188	Secondary air injection (AIR), pump relay – signal high
P1189	Mass air flow (MAF)/vane air flow (VAF) – flow too low
P1190	Throttle control system – incorrect air flow
P1191	Secondary Air Valve Or The Tube Blocked
P1192	Secondary Air System Air Mass Flow Sensor Disconnected or Stuck Signal
P1193	Secondary Air Valve Control Circuit Electrical

P1197	Secondary Air System Bank 2
P1198	Mass air flow (MAF)/vane air flow (VAF) – flow too high
P1199	Secondary Air Injection System Incorrect Flow Detected
P1214	Fuel tank leakage diagnostic module
P1215	Catalyst temperature sensor – wrong code
P1216	Purge Control Valve Control Circuit Signal Low
P1217	Catalyst temperature sensor – correlation error
P1221	Catalyst temperature sensor – range error
P1222	Purge Control Valve Control Circuit Signal High
P1223	Leakage Diagnostic Pump Control Open Circuit
P1230	Leakage Diagnostic Pump Control Circuit Signal Low
P1234	Leakage Diagnostic Pump Control Circuit Signal High
P1236	Diagnostic Module Tank Leakage Pump Control Open Circuit
P1244	Diagnostic Module Tank Leakage Pump Control Circuit Signal Low
P1250	Diagnostic Module Tank Leakage Pump Control Circuit Signal High
P1252	Fuel tank leakage diagnostic module – pump current too high
P1270	Fuel tank leakage diagnostic module – pump current too low
P1271	Fuel tank leakage diagnostic module – pump current too high
P1283	Diagnostic Module Tank Leakage Switching Solenoid Open Circuit
P1284	Diagnostic Module Tank Leakage Switching Solenoid Control Circuit Signal Low
P1285	Diagnostic Module Tank Leakage Switching Solenoid Control Circuit Signal High
P1287	Secondary air injection (AIR), pump relay – signal low

P1288	Secondary Air Injection Pump With Series Resistor Control Circuit Electrical
P1289	Heated Catalyst Heater Power Switch Temperature Sensor Electrical Bank 1
P1300	Heated Catalyst Heater Power Supply Open Circuit Bank 2
P1301	Heated Catalyst Heater Power Switch Temperature Sensor Electrical Bank 2
P1302	Heated Catalyst Gate Voltage Signal Low
P1303	Heated Catalyst Internal Control Module Checksum/ROM Error
P1304	Heated Catalyst Battery Temperature Sensor 1 Electrical
P1305	Heated Catalyst Battery Temperature Sensor 2 Electrical
P1306	Heated Catalyst Battery Temperature Sensor 1 or 2 Plausibility
P130A	Heated Catalyst Power Switch Temperature Sensor Plausibility
P1313	Heated Catalyst Comparison Battery Voltages of Power Switches Plausibility
P1314	Heated Catalyst Battery Disconnecting Switch Plausibility
P1317	Evaporative emission (EVAP) canister purge valve - ECM output stage
P1327	Diagnostic Module Tank Leakage Pump Current Plausibility
P1328	Leakage Diagnostic Pump Clamped Tube
P1329	Leakage Diagnostic Pump Reed Switch Did Not Open
P1330	Evaporative Emissions System Leak Detected
P1332	Brake Boost Vacuum System Mechanical Failure
P1333	Downstream Throttle Air Leak
P1340	Unmetered Air After Compressor
P1341	Electric fan self-test fault
P1342	Radiator ventilation self-test fault

P1343	Manifold differential pressure circuit, actuator 1 – mechanical fault
P1344	Manifold differential pressure circuit, actuator 2 – mechanical fault
P1345	Radiator ventilation, lower- electrical fault
P1346	Radiator ventilation, upper- electrical fault
P1347	Radiator ventilation – electrical fault
P1348	Battery temperature sensor circuit – temperature error
P1349	Idle Speed Control Valve Stuck Closed
P1350	Idle Speed Control Valve Closing Solenoid Control Circuit Signal High or Low
P1351	Idle Speed Control Valve Closing Solenoid Control Circuit Signal Low
P1352	Idle Speed Control Valve Closing Solenoid Control Open Circuit
P1353	Idle Speed Control Valve Closing Solenoid Control Circuit Electrical
P1354	Idle Speed Control Valve Open Solenoid Control Circuit Signal High
P1355	Idle Speed Control Valve Open Solenoid Control Circuit Signal Low
P1356	Idle Speed Control Valve Opening Solenoid Control Open Circuit
P1357	Idle speed control (ISC) actuator - malfunction
P1358	Battery temperature sensor circuit – electrical fault
P1359	Battery temperature sensor circuit – electrical fault
P135B	Battery temperature sensor circuit
P135C	Battery temperature sensor circuit – voltage error
P1360	Battery temperature sensor circuit – current error
P1361	Idle Speed Control Valve Stuck
P1362	Manifold differential pressure circuit – electrical fault
P1363	Manifold differential pressure circuit – signal low

P1364	Manifold differential pressure circuit – signal high
P1365	Engine off timer – implausible signal
P1377	MS40/41/42/46/M5. 2: Inlet camshaft control system, end position - plausibility
P1381	Battery temperature sensor circuit – electrical fault
P1382	Battery temperature sensor circuit – electrical fault
P1383	Battery temperature sensor circuit
P1384	Oil quality sensor- communication error
P1385	Inlet camshaft control system, camshaft position - plausibility
P1386	Camshaft Position Actuator 'A' Signal High Bank 1
P1396	Camshaft position (CMP) actuator, inlet camshaft - ECM output stage
P1397	Inlet camshaft control system, Bank 2 - ECM output stage
P1400	Camshaft Position Actuator 'A' Control Circuit Signal Low Bank 1
P1401	Camshaft Position Actuator 'A' Control Circuit Signal High Bank 1
P1402	Camshaft position (CMP) actuator, exhaust camshaft - ECM output stage
P1403	Idle Air Control Actuator 2 Target Position Fault
P1404	Camshaft Position Actuator 'B' Control Open Circuit Bank 1
P1405	Camshaft Position Actuator 'B' Control Open Circuit Bank 2
P1406	Camshaft Position Actuator 'B' Control Circuit Signal Low Bank 2
P1407	Camshaft Position Actuator 'B' Control Circuit Signal High Bank 2
P1408	Electronic stability program (ESP) control switch – input too high
P140A	Electronic stability program (ESP) control switch – input too low
P140E	Pedal Position Sensor Electrical

P1413	Pedal Position Sensor
P1414	Pedal Position Sensor
P1415	Pedal Position Sensor
P1417	Pedal Position Sensor
P1418	Idle speed control (ISC) actuator - malfunction
P1419	Engine off timer – timeout
P1420	Camshaft Position Actuator 'A' Control Open Circuit Bank 1
P1421	Engine position system B, bank 1 – performance
P1422	Engine position system A, bank 1 – performance –
P1423	Camshaft Position Actuator 'A' Control Open Circuit Bank 1
P1424	Cruise control signal – interface fault
P1432	Camshaft Position Actuator 'B' Control Open Circuit Bank 1
P1434	Cold start idle air control (IAC) system – RPM lower than expected
P1438	Cruise control switch – defective
P1439	Control Module Selection
P143C	Camshaft Position Actuator 'B' Control Open Circuit Bank 1
P143E	Camshaft Position Actuator 'A' Control Open Circuit Bank 2
P1440	Cruise control signal – interface fault
P1441	Oil pump circuit – high voltage
P1442	Oil pump circuit – low voltage
P1443	Oil pump circuit – open circuit
P1444	Random/multiple cylinder(s) - misfire detected
P1445	Oil quality sensor – temperature error
P1446	Oil quality sensor – temperature error
P1447	Knock sensor(s) (KS) - circuit malfunction
P1448	Idle Air Control Actuator 2 Random Access Memory Error
P1449	Engine oil pressure – mechanical control solenoid sticking deactivated
P1450	Engine oil pressure – too high
P1451	Engine oil pressure – too high before start

P1452	Engine oil pressure – too low before start
P1453	Charging system – battery discharged
P1454	Charging system – voltage low
P1457	Charging system – voltage high
P1459	Charging system – battery discharged/disconnected
P1460	Charging system – battery discharged
P1461	ECM self-test – electrical fault
P1462	Map Cooling Thermostat Control Circuit Signal Low
P1463	Map Cooling Thermostat Control Circuit Signal High
P1464	Engine coolant temperature (ECT) sensor, ECM controlled cooling system - ECM output stage
P1465	MIL Request Signal Active
P1466	Accelerator pedal position (APP) sensor, supply voltage 2 – electrical fault
P1467	Throttle valve – adaptation failure
P1468	Throttle valve adaptation – limp home position incorrect
P1470	Throttle valve adaptation – return spring test failed, bank 1
P1472	Throttle valve adaptation – mechanical stop not adapted, bank 1
P1473	Throttle valve control circuit, bank 1 -circuit malfunction
P1475	Throttle position control – control deviation, bank 1
P1476	Throttle position control – throttle stuck temporarily, bank 1
P1477	Throttle position control – throttle stuck permanently, bank 1
P1478	Throttle valve adaptation – mechanical stop not adapted, bank 1
P1479	Accelerator pedal position (APP) sensor, supply voltage 1 – electrical fault
P1497	ECM – internal fault
P1498	Cruise control module self-test – internal fault

P14A3	Pressure Of Diesel Particulate Filter Implausible To Atmospheric Pressure Or Boost Pressure
P14C0	Cruise control signal – malfunction
P14C1	Cruise control signal – implausible signal
P14C2	ECM – internal fault
P14C3	Throttle valve actuator, start test – adaptive learning not complete
P14C4	Malfunction indicator lamp (MIL) - circuit malfunction
P14C5	Throttle valve adaptation – limp home position failed
P14C6	ECM – internal fault
P1500	ECM – internal fault
P1501	Time out control module – knock sensor (KS) bus
P1502	Time out control module – output bus
P1503	ECM self-test – cruise control monitoring fault
P1504	ECM self-test- mass air flow (MAF) sensor monitoring fault
P1505	ECM self-test – throttle position (TP) monitoring fault
P1506	ECM self-test – speed monitoring reset
P1507	ECM self-test – accelerator pedal position ·(APP) monitoring fault
P1508	ECM self-test- idle air control (IAC) system fault
P1509	ECM self-test – idle air control (IAC) system fault
P150A	ECM self-test – cruise control distance monitoring fault
P150B	ECM self-test- torque converter clutch (TCC) monitoring fault
P150C	ECM self-test- torque loss monitoring fault
P150D	ECM self-test – electronic stability program (ESP) monitoring
P150E	ECM self-test – speed limitation monitoring fault
P150F	CAN interface timeout
P1510	Fuel pump circuit – no signal
P1511	CAN Torque Interface

P1512	WT limp home mode – high input
P1513	WT limp home mode – open circuit
P1515	WT control circuit, solenoid loss, bank 1
P1519	WT control circuit – reset malfunction, bank 1
P151A	WT control circuit malfunction – implausible sensor data, bank 1
P151B	WT control circuit – reset malfunction, bank 2
P151C	WT control circuit malfunction – implausible sensor data, bank 2
P1520	WT sensor circuit, solenoid loss, bank 1
P1521	WT sensor circuit malfunction – implausible sensor data, bank 1
P1522	VVT sensor circuit – implausible sensor data, bank 1
P1523	WT sensor circuit – implausible sensor data, bank 2
P1524	WT supply voltage circuit malfunction – high input, bank 1
P1525	WT supply voltage circuit malfunction -low input, bank 1
P1526	WT supply voltage circuit malfunction – high input, bank 2
P1527	WT supply voltage circuit malfunction – low input, bank 2
P1528	VVT self-test – out of range, bank 1
P1529	VVT self-test- out of range, bank 1
P152A	VVT self-test – no value, bank 1
P152B	VVT self-test – out of range, bank 2
P1530	VVT self-test – out of range, bank 2
P1531	VVT self-test – no value, bank 2
P1532	WT control motor, bank 1 – position circuit malfunction
P1533	VVT actuator, bank 1 – direction of rotation malfunction
P1534	VVT control motor, bank 2 – position circuit malfunction
P1540	VVT actuator, bank 2 – direction of rotation malfunction
P1541	VVT CAN timeout, bank 1
P1542	VVT CAN timeout, bank 1
P1543	VVT CAN timeout, bank 2

P1544	VVT CAN timeout, bank 2
P1545	VVT control module, bank 1 – EEPROM error
P1546	VVT control module, bank 1 – RAM error
P1550	VVT control module, bank 1 – ROM error
P1551	VVT control module, bank 2 – RAM error
P1552	VVT control module, bank 2 – ROM error
P1553	VVT control circuit, bank 1 – high input
P1554	VVT control circuit, bank 1 – low input
P1556	WT control circuit, bank 1 – short circuit
P155A	VVT control circuit, bank 1 – circuit malfunction
P1560	VVT control circuit, bank 2 – high input
P1561	VVT control circuit, bank 2 – short circuit
P1562	WT control motor, bank 1 – supply voltage high input
P1563	VVT control motor, bank 1 – supply voltage low input
P1564	VVT control motor, bank 1 – supply voltage circuit malfunction
P1565	WT control motor, bank 2 – supply voltage high input
P1569	WT control motor, bank 2 – supply voltage low input
P1576	VVT control motor, bank 2 supply voltage circuit malfunction
P1577	WT limp home mode, bank 1 – circuit malfunction
P1578	WT limp home mode, bank 1 – full stroke position not reached
P1582	VVT limp home mode, bank 1 – mass air flow (MAF) signal malfunction
P1583	WT starting position/rest position comparison – circuit malfunction, bank 1
P1584	WT sensor circuit – reset malfunction, bank 2
P1585	WT sensor circuit malfunction – no input, bank 2
P1586	WT control module, bank 1 – internal fault
P1587	WT control module, bank 2 – internal fault

P1588	WT overload protection – high input, bank 1
P1589	WT overload protection, ECU temperature – high input, bank 1
P1593	WT overload protection, control motor temperature – high input, bank 1
P1598	VVT overload protection, control motor – current high, bank 1
P15A1	WT overload protection – high input, bank 2
P15A2	WT overload protection, ECU temperature – high input, bank 2
P15A3	WT overload protection, control motor temperature – high input, bank 2
P15A6	WT overload protection, control motor – current high, bank 2
P15A7	Manifold differential pressure (MDP) sensor, bank 1 – pressure above upper limit
P15B9	Check Valve (Intake Manifold) Leak Detected
P1603	Manifold differential pressure (MOP) sensor, bank 1 – pressure above upper limit
P160A	Manifold differential pressure (MOP) sensor, bank 1 – pressure above upper limit
P160C	Intake air temperature (IAT) sensor 1, bank 1 – maximum temperature implausible
P160D	Engine coolant temperature (ECT) sensor – minimum temperature implausible
P160E	Heated oxygen sensor (H02S) 2, bank 2 – dynamic test malfunction
P160F	Mass air flow (MAF)/volume air flow (VAF), 1 – incorrect signal
P1614	Mass air flow (MAF)/volume air flow (VAF), A – above upper limit
P1618	Mass air flow (MAF)/volume air flow (VAF), A – below lower limit

P1619	Mass air flow (MAF)/volume air flow (VAF), A- incorrect signal
P1620	Mass air flow (MAF)/volume air flow (VAF), A – above upper limit
P1622	Manifold differential pressure (MOP) sensor, bank 1 – signal high
P1624	Manifold differential pressure (MOP) sensor, bank 1 – signal low
P1625	Manifold differential pressure (MOP) sensor, bank 1 – implausible signal
P1630	Knock sensor (KS) 2, bank 1 – low input
P1631	Knock sensor (KS) 2, bank 1 – high input
P1632	Knock sensor (KS) 3 – low input
P1633	Knock sensor (KS) circuit 2, bank 1 – internal failure
P1634	ECM self-test – bank 1 knock control malfunction
P1635	Knock sensor (KS), 3 – control circuit internal failure
P1636	ECM self-test- bank 1 knock control fault
P1637	Fuel tank leakage diagnostic module – pump current too high
P1638	Fuel tank leakage diagnostic module – pump current too high
P1639	Radiator ventilation, upper- electrical fault
P163C	Radiator ventilation – electrical fault
P163E	Battery temperature sensor circuit – electrical fault
P1641	Battery temperature sensor circuit – electrical fault
P1642	Battery temperature sensor circuit
P1643	Battery temperature sensor circuit – temperature error
P1644	Battery temperature sensor circuit – current error
P1645	Manifold differential pressure circuit – electrical fault
P1649	Manifold differential pressure circuit – signal low
P164C	Manifold differential pressure circuit – signal high

P1650	Battery temperature sensor circuit – electrical fault
P165F	Battery temperature sensor circuit – electrical fault
P166A	Battery temperature sensor circuit
P166B	Oil quality sensor – communication error
P166C	Oil quality sensor – communication error
P166F	Vehicle speed sensor (VSS) – speed too low compared to reference value
P1675	Vehicle speed sensor (VSS) – speed too low compared to reference value
P1676	Engine off timer – timeout
P1677	Cold start idle air control (IAC) system – RPM higher than expected
P1678	Cold start idle air control (IAC) system – RPM lower than expected
P1680	Vehicle speed sensor (VSS) signal
P1681	Vehicle speed sensor (VSS) signal
P1685	Oil quality sensor – temperature error
P1686	ECM self-test- torque monitoring
P1690	Charging system – battery discharged
P1694	Charging system – voltage low
P169A	Charging system – voltage high
P16A0	Charging system – battery discharged/ disconnected
P16A1	Charging system – battery discharged
P16A3	Cruise control – no signal
P16A4	Throttle valve adaptation – limp home position incorrect
P16A5	Throttle valve adaptation – return spring test failed, bank 1
P16A6	Throttle valve adaptation – mechanical stop not adapted, bank 1
P16A7	Throttle position control – control deviation, bank 1
P16A8	Throttle position control – throttle stuck temporarily, bank 1

P16A9	Throttle position control – throttle stuck permanently, bank 1
P16B0	Engine control module (ECM) – incorrect voltage
P16B1	Engine control module (ECM) – incorrect voltage
P16B2	Engine control module (ECM) – communication error
P16B3	Throttle valve adaptation – aborted
P16B4	Throttle valve adaptation – aborted
P16B6	Throttle valve actuator – adaptation failure
P16B7	Throttle valve adaptation – mechanical stop not adapted, bank 1
P16B8	Engine control module (ECM) – RAM malfunction
P16B9	Engine control module (ECM) – ROM malfunction
P16C0	Starter request circuit – engine start request while engine is running
P16C1	Cruise control – implausible signal
P16C2	Cruise control – no signal
P16C5	Cruise control – no response
P16C6	Throttle position (TP) control circuit – internal malfunction
P16C8	Throttle position (TP) control circuit- speed ratio error
P1721	Throttle position (TP) control circuit – malfunction
P1732	ECM, knock sensor (KS) control – internal failure
P1770	CAN data bus monitoring – ETC timeout
P3263	EML Frequently Illuminating

# CHEVY



Codes	Definition
P1011	Intake camshaft position (CMP) actuator, bank 1 -incorrect park position
P1012	Exhaust camshaft position (CMP) actuator, bank 1-incorrect park position
P1013	Intake Camshaft Position Actuator Park Position Bank 2
P1014	Exhaust camshaft position (CMP) actuator, bank 2-incorrect park position
P1031	HO2S Heater Current Monitor Control Circuit Banks 1 and 2 Sensor 1
P1032	HO2S Heater Warm Up Control Circuit Banks 1 and 2 Sensor 1
P1093	Fuel rail pressure (FRP) sensor, command/actualfuel pressure -signal variation
P1094	Fuel rail pressure (FRP) sensor -signal out of range
P1101	Intake airflow -incorrect
P1105	Secondary Vacuum Sensor Circuit
P1106	Manifold absolute pressure (MAP) sensor voltage high, intermittent
P1107	Manifold absolute pressure (MAP) sensor voltage low, intermittent
P1108	Manifold absolute pressure (MAP) sensor voltage high
P1109	Secondary Port Throttle System
P1111	Intake air temperature (IAT) sensor -voltage high, intermittent
P1112	Intake air temperature (IAT) sensor -voltage low, intermittent
P1113	Intake Resonance Switchover Solenoid Control Circuit
P1114	Engine coolant temperature (ECT) sensor voltage low, intermittent
P1115	Engine coolant temperature (ECT) sensor voltage high, intermittent

P1116	Engine coolant temperature (EeT) sensor circuit malfunction
P1117	Engine Coolant Temperature Signal Out-Of-Range Low
P1118	Engine Coolant Temp. Signal Out-Of-Range High
P1119	Engine Coolant Temperature Signal Out Of Range
P1120	Throttle motor position sensor 1 -circuitmalfunction
P1121	Throttle position (TP) sensor -voltage high, intermittent
P1122	Throttle position (TP) sensor -voltage low, intermittent
P1125	Accelerator pedal position (APP) sensor 1/2 signal malfunction
P1130	HO2S Circuit Low Variance Bank 1 Sensor 1
P1131	HO2S Circuit Low Variance Bank 1 Sensor 2
P1132	Heated oxygen sensor (HO2S) 1, bank 1 signal circuit shorted to heater circuit
P1133	Heated oxygen sensor (HO2S) 1, bank 1 insufficient switching
P1134	Heated oxygen sensor (HO2S) 1, bank 1 -slow response
P1135	HO2S Lean Mean Bank 1 Sensor 1
P1136	HO2S Rich Mean Bank 1 Sensor 1
P1137	Heated oxygen sensor (HO2S) 2, bank 1 voltage low
P1138	Heated oxygen sensor (HO2S) 2, bank 1 voltage high
P1139	HO2S Insufficient Switching Bank 1 Sensor 2
P1140	HO2S Transition Time Ratio Bank 1 Sensor 2
P1141	HO2S Heater Control Circuit Bank 1 Sensor 2
P1143	HO2S Bank 1 Sensor 3 Lean System or Low Voltage
P1144	HO2S Bank 1 Sensor 3 Rich or High Voltage
P1145	HO2S Cross Counts Bank 1 Sensor 3
P1152	Heated oxygen sensor (HO2S) 1, bank 2 signal circuit shorted to heater circuit
P1153	Heated oxygen sensor (HO2S) 1, bank 2insufficient switching

P1154	Heated oxygen sensor (HO2S) 1, bank 2 slow response
P1155	HO2S Lean Average Bank 2 Sensor 1
P1156	HO2S Rich Average Bank 2 Sensor 1
P1157	HO2S Bank 2 Sensor 2 Lean System Or Low Voltage
P1158	Heated oxygen sensor (HO2S) 2, bank 2 -not switching, fuel trim (FT) rich mixture
P1159	HO2S Cross Counts Bank 2 Sensor 2
P1161	HO2S Heater Control Circuit Bank 2 Sensor 2
P1163	HO2S Bank 2 Sensor 3 Lean System Or Low Voltage
P1164	HO2S Bank 2 Sensor 3 Rich Or High Voltage
P1165	HO2S Cross Counts Bank 2 Sensor 3
P1166	Heated oxygen sensor (HO2S) 2, bank 1 voltage low
P1170	Bank To Bank Fuel TrimOffset
P1171	Fuel system -lean during acceleration
P1172	Fuel level sensors, primary & secondary sensorno fuel level change during fuel transfer fromsecondary to primary tank
P1174	Heated oxygen sensor (HO2S) 1, bank 1 mixture variation between cylinders
P1175	Heated oxygen sensor (HO2S) 1, bank 2 mixture variation between cylinders
P1182	Supercharger (SC) boost pressure sensor malfunction
P1183	Supercharger (SC) boost pressure sensor voltage low
P1184	Supercharger (SC) boost pressure sensor voltage high
P1185	Engine Oil Temperature Sensor Circuit
P1186	Engine Oil Temperature Sensor Circuit Performance
P1187	Engine oil temperature (EOT) sensor -voltage low
P1188	Engine oil temperature (EOT) sensor -voltage high
P1189	Engine oil pressure warning lamp switch circuit malfunction
P1190	Engine Vacuum Leak

P1191	Intake manifold system , -air leak
P1200	Injectors -circuit malfunction
P1201	Gas Mass Sensor Circuit Range/Performance
P1202	Gas Mass Sensor Circuit Low Frequency
P1203	Gas Mass Sensor Circuit High Frequency
P1211	Mass Air Flow Circuit Intermittent High
P1212	Mass Air Flow Circuit Intermittent Low
P1214	Injection Pump Timing Offset
P1215	Generator Driver Circuit Conditions
P1216	Fuel Solenoid Response Time Too Short Conditions
P1217	Fuel Solenoid Response Time Too Long
P1218	Injection Pump Calibration Circuit
P1219	Throttle Position Sensor Reference Voltage
P1220	Throttle motor position sensor 2 -circuit malfunction
P1221	Throttle motor position sensor 1/2 -signalvariation
P1222	Injector control, circuit monitor -malfunction
P1223	Injector 1 -circuit malfunction
P1224	Injector 1 -circuit malfunction
P1225	Injector Circuit Cylinder 2 Intermittent
P1226	Injector 2 -circuit malfunction
P1227	Injector 2 -circuit malfunction
P1228	Injector Circuit Cylinder 3 Intermittent
P1229	Injector 3 -circuit malfunction
P122A	Injector 3 -circuit malfunction
P1231	Injector Circuit Cylinder 4 Intermittent
P1232	Injector 4 -circuit malfunction
P1233	Injector 4 -circuit malfunction
P1234	Injector Circuit Cylinder 5 Intermittent
P1235	Injector 5 -circuit malfunction
P1236	Injector 5 -circuit malfunction

P1237	Injector Circuit Cylinder 6 Intermittent
P1238	Injector 6 -circuit malfunction
P1239	Injector 6 -circuit malfunction
P1240	Injector Circuit Cylinder 7 Intermittent
P1241	Injector 7 -circuit malfunction
P1242	Injector 7 -circuit malfunction
P1243	Injector Circuit Cylinder 8 Intermittent
P1244	Injector 8 -circuit malfunction
P1245	Intake Plenum Switchover Valve
P1247	Injector 8 -circuit malfunction
P1248	Injector 1 Positive Voltage Control Circuit Shorted to Control Circuit
P1249	Injector 2 Positive Voltage Control Circuit Shorted to Control Circuit
P1250	Intake manifold heater -circuit malfunction
P1255	Fuel pump control module -driver over-temperature
P1257	Supercharger System Overboost
P1258	Engine overheating
P1260	Fuel Pump Speed Relay Control Circuit Conditions
P1261	Injectors 1, 4, 6 & 7 -high voltage
P1262	Injectors 2, 3, 5 & 8 -high voltage
P1270	Engine control module (ECM), APP sensor signal-analogue/digital process malfunction
P1271	Accelerator pedal position (APP) sensor 1/2 signal variation
P1272	Accelerator pedal position (APP) sensor 2/3 -signal variation
P1273	Accelerator pedal position (APP) sensor 1/3 –signal variation
P1274	Injectors Wired Incorrectly
P1275	Accelerator pedal position (APP) sensor 1 circuitmalfunction

P1276	Accelerator pedal position (APP) sensor 1 rangeperformance
P1277	Accelerator pedal position (APP) sensor 1 voltage low
P1278	Accelerator pedal position (APP) sensor 1voltage high
P1280	Accelerator pedal position (APP) sensor 2 circuit malfunction
P1281	Accelerator pedal position (APP) sensor 2 range performance
P1282	Accelerator pedal position (APP) sensor 2voltage low
P1283	Accelerator pedal position (APP) sensor 2voltage high
P1285	Accelerator pedal position (APP) sensor 3 circuitmalfunction
P1286	Accelerator pedal position (APP) sensor 3 range performance
P1287	Accelerator Pedal Position Sensor 3 Circuit Low Voltage
P1288	Accelerator pedal position (APP) sensor 3voltage high
P1293	Fuel injection control module -circuit malfunction bank 1
P1294	Fuel injection control module -circuit malfunction bank 2
P1295	Fuel injection control module -circuit malfunction bank 1
P1296	Fuel injection control module -circuit malfunction bank 2
P129D	Ignition switch circu it 1-low voltage
P129F	Fuel pump speed signal -incorrect
P12A1	Fuel pump speed circuit -high duty cycle
P12A2	Fuel pump speed circuit -performance
P12A4	Fuel pump enable circuit voltage -low
P12A5	Fuel pump enable circuit voltage -high
P12A6	Fuel pump enable circuit voltage -performance
P12A7	Fuel pump phase U-V-W circuit
P12AO	Fuel pump speed circuit -low duty cycle
P1300	Ignition coil 1 control -feedback circuit malfunction
P1305	Ignition coil 2 control -feedback circuitmalfunction

P1310	Ignition coil 3 control -feedback circuit malfunction
P1315	Ignition coil 4 control -feedback circuit malfunction
P1320	IC Module 4X Reference Circuit Intermittent No Pulses
P1321	Electronic Ignition System Fault Line
P1322	EI System or Ignition Control Extra or Missing
P1323	IC 24X Reference Circuit Low Frequency
P1324	Crank RPM Too Low
P1335	Crankshaft position (CKP) sensor -circuit malfunction
P1336	Crankshaft position (CKP) sensor -variation not learned
P1345	Crankshaft Position (CKP)-Camshaft Position (CMP) Correlation
P1346	Camshaft position actuator -circuit malfunction
P1349	Camshaft position actuator -circuit malfunction
P1350	Ignition control system, bypass monitor circuit malfunction
P1351	Ignition control system, coil -voltage high
P1352	Ignition control system, bypass circuit voltage high
P1353	Ignition control module (ICM) -ignition coil 3circuit voltage high
P1354	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 4
P1355	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 5
P1356	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 6
P1357	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 7
P1358	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 8
P1359	Ignition Control Circuit Group 1
P1360	Ignition Control Circuit Group 2
P1361	Ignition control system, ignition control (IC) circuit -voltage low

P1362	Ignition control, bypass circuit -voltage low
P1363	Ignition control module (ICM) -ignition coil 3 circuit voltage low
P1364	Ignition Control Cylinder 4 Not Toggling After Enable
P1365	Ignition Control Cylinder 5 Not Toggling After Enable
P1366	Ignition Control Cylinder 6 Not Toggling After Enable
P1367	Ignition Control Cylinder 7 Not Toggling After Enable
P1368	Ignition Control Cylinder 8 Not Toggling After Enable
P1370	Ignition Control Module 4X Reference Circuit Too Many Pulses
P1371	Ignition control reference signal. low/high resolution -low signal lost
P1372	Crankshaft Position Sensor A-B Correlation Conditions
P1374	Crankshaft position (CKP) sensor, high to lowresolution frequency -signal variation
P1375	IC 24X Reference Circuit High Voltage
P1376	Ignition Ground Circuit
P1377	Ignition Control Module Cam Ref Pulse To 4X Ref Pulse Incorrect
P1380	Antilock brake system (ABS)/traction control system (TCS), rough road signal to engine control module (ECM) - malfunction
P1381	Antilock brake system (ABS)/traction control system (TCS), rough road signal to engine control module (ECM) -no communication
P1390	Wheel Speed Sensor 1 G-Sensor Circuit
P1391	Rough road sensor -signal malfunction
P1392	Rough road sensor -voltage low
P1393	Rough road sensor -voltage high
P1394	Wheel Speed Sensor 1 G-Sensor Circuit Intermittent
P1395	Wheel Speed Sensor 2 G-Sensor Circuit
P1396	Rough road sensor -signal malfunction

P1397	Rough road sensor -signal malfunction
P1398	Wheel Speed Sensor 2 G-Sensor Circuit High Voltage
P1399	Wheel Speed Sensor 2 G-Sensor Circuit Intermittent
P1400	Cold start emission control -malfunction
P1403	Exhaust gas recirculation (EGR) solenoid 1circuit malfunction
P1404	Exhaust gas recirculation (EGR) valve not fully closing
P1405	Exhaust gas recirculation (EGR) solenoid 3 circuit malfunction
P1406	Exhaust gas recirculation (EGR) valve position sensor range performance
P1407	EGR Air Intrusion in Exhaust Supply to EGR Valve
P1408	Manifold absolute pressure (MAP) sensor voltageout range
P1409	EGR Vacuum System Leak
P1410	Evaporative emission (EVAP) canister purge valve-circuit malfunction
P1415	Secondary air injection (AIR) system, bank 1
P1416	Secondary air injection (AIR) system, bank 2
P1418	Secondary Air Injection System Relay 'A' Control Circuit High
P1420	Intake Air Low Pressure Switch Circuit Low Voltage
P1421	Intake Air Low Pressure Switch Circuit High Voltage
P1423	Intake Air High Pressure Switch Circuit High Voltage
P1431	Fuel level sensor -circuit malfunction
P1432	Fuel level sensor low voltage
P1433	Fuel level sensor -voltage high
P1441	Evaporative emission (EVAP) system -leak detected
P1442	Evaporative emission (EVAP) system vacuum switch - circuit malfunction
P1448	Diesel particulate filter (DPF) regeneration frequency -too low

P1450	Barometric pressure (BARO) sensor -voltage outof range
P1451	Barometric pressure (BARO) sensor performance range
P1460	Cooling Fan Control System
P1480	Cooling Fan 1 Control Circuit High
P1481	Cooling Fan Speed Signal Lost
P1482	Cooling Fan Circuit Condition
P1483	Engine cooling system -performance
P1484	Cooling Fan RPM Signal Malfunction
P1500	Ignition switch, cranking signal/system voltage -circuit malfunction
P1501	Theft Deterrent System Fault Conditions
P1502	Theft Deterrent Fuel Enable Signal Not Received
P1503	Theft Deterrent Fuel Enable Signal Not Correct
P1504	Engine control module (ECM). vehicle speed sensor (VSS) output signal -circuit malfunction
P1508	Idle air control (IAC) valve -low rpm
P1509	Idle air control (IAC) valve -high rpm
P1510	Engine control module (ECM), KAM supply voltage -circuit malfunction
P1511	Throttle Control System Backup System Performance
P1512	Throttle control unit -signal variation
P1514	Throttle control unit, intake air flow -excessive
P1515	Throttle command/actual throttle position -signalvariation
P1516	Throttle command/actual throttle position signal variation
P1517	Throttle control module -malfunction
P1518	Throttle control. module/engine control module(ECM) - communication malfunction
P1519	Throttle motor position sensor 1 -signal malfunction
P1520	Park/neutral position (PNP) switch -circuit malfunction
P1521	Transmission Engaged at High Throttle Angle
P1522	Park/Neutral to Drive/Reverse at High RPM

P1523	Throttle control unit, closed throttle position -performance
P1524	Throttle Closed Position Performance
P1525	Throttle Body Service Required
P1526	Minimum Throttle Position Not Learned Conditions
P1527	Throttle Position Sensor Learned Closed Throttle Degrees Out Of-Range
P1528	Governor
P1529	Heated Windshield Request Problem
P1530	A/C refrigerant pressure sensor/switch -circuit malfunction
P1531	A/C refrigerant pressure sensor -voltage low
P1532	A/C refrigerant temperature sensor -voltage low
P1533	A/C refrigerant temperature sensor -voltage high
P1534	A/C High Side Temperature Sensor Low Voltage
P1535	A/C High Side Temperature Sensor Circuit
P1536	Engine Coolant Overtemperature Air Conditioning Disabled
P1537	A/C Request Circuit Low Voltage
P1538	A/C Request Circuit High Voltage
P1539	A/C compressor clutch relay -voltage high
P1540	A/C System High Pressure
P1541	A/C High Side Over Temperature
P1542	A/C System High Pressure High Temperature
P1543	A/C system -performance
P1544	A/C Refrigerant Condition Very Low
P1545	A/C compressor clutch relay -voltage low
P1546	A/C compressor clutch relay -circuit malfunction
P1547	A/C System Performance Degraded
P1548	A/C Recirculation Circuit
P154A	Intake air heater -feedback circuit
P154B	Intake air heater -voltage signal circuit
P154C	Intake air heater -current signal circuit

P154D	Intake air heater -temperature signal circuit
P1550	Cruise control system, motor actuator -circuit malfunction
P1551	Throttle valve -rest position incorrect
P1554	Cruise control status circuit -high voltage
P1555	Electronic Variable Orifice Output
P1558	Cruise control system -performance low
P1559	Cruise Control Power Management Mode
P1560	Transaxle Not in Drive Cruise Control Disabled
P1561	Cruise control, vent solenoid -circuit malfunction
P1562	Cruise control, vacuum solenoid -circuit malfunction
P1563	Cruise Vehicle Speed/Set Speed Difference Too High
P1564	Cruise Control System Vehicle Acceleration Too High
P1565	Cruise control servo position sensor -circuit malfunction
P1566	Cruise Control System Engine RPM Too High
P1567	Cruise control master switch -circuit malfunction
P1568	Cruise control system -performance high
P1569	Cruise Servo Stroke High While Not In Cruise
P1570	Cruise Control System Traction Control Active
P1571	Traction control system (TCS), torque request signal - malfunction
P1572	Traction control system (TCS). active signal -malfunction
P1573	Engine control module (ECM), antilock brake system (ASS)/ traction control system (TCS)communication -malfunction
P1574	Brake pedal position (BPP) switch, voltage high
P1575	Brake pedal position (BPP) .switch. extended travel contacts -voltage high
P1576	Brake Booster Vacuum Sensor Circuit High Voltage
P1577	Brake Booster Vacuum Sensor Circuit Low Input
P1578	Brake Booster Vacuum Sensor Circuit Low Vacuum
P1579	P/N to D/R at High Throttle Angle - Power Reduction Mode Active

P1580	Cruise Move Circuit Low Voltage
P1581	Cruise Control Module Move Circuit High Input Conditions
P1582	Cruise Control Module Direction Low Input Conditions
P1583	Cruise Direction CircuitHigh Voltage
P1584	Cruise Control Disabled
P1585	Cruise control system, inhibit output circuit
P1586	Cruise control system. brake switch 2 -circuit malfunction
P1587	Cruise Control Clutch Control Circuit Low
P1588	Cruise Control Clutch Control Circuit High
P1599	Cruise control system -engine management has operated in limited power mode
P1600	Engine control module (ECM) -malfunction
P1601	CAN data bus, ECM/ASSITCS/instrumentation control module/ diagnostic control module some communication lost
P1602	CAN data bus -antilock brake system (ASS)/ traction control system (TCS)
P1603	Loss Of Sensing Diagnostic Mode Data Conditions
P1604	CAN data bus -instrument panel
P1605	CAN data bus -A/C
P1606	Serial Communication Problem With Device 6
P1607	Serial Communication Problem With Device 7
P1608	Serial Communication Problem With Device 8
P1609	Loss Of TCS Serial Data
P160C	Glow plug control module engine calibration information - not programmed
P1610	CAN data bus -body control module (SCM)
P1611	Loss Of Continuous Variable Real Time Damping Serial Data Conditions
P1612	Loss Of IPM Serial Data
P1613	Loss Of DIM Serial Data

P1614	Loss Of RIM Serial Data
P1615	Loss Of VTD Serial Data
P1617	Engine Oil Level Switch Circuit
P1619	Engine Oil Life Monitor Reset Circuit
P161B	Throttle motor control module -performance
P1620	Low Engine Coolant Circuit Conditions
P1621	Engine control module (ECM) -malfunction
P1622	Cylinder Select
P1623	Engine control module (ECM), PROM -malfunction
P1624	Engine control module (ECM) memory performance
P1625	PCM Flash Checksum TCM Conditions
P1626	Engine control module (ECM) -fuel enable signal lost
P1627	Engine control module (ECM) -malfunction
P1628	Powertrain Control Module Engine Control Temperature Pullup Resistor Conditions
P1629	Engine control module (ECM) -fuel enable signal not received
P1630	Engine control module (ECM). immobilizer code -leaming mode
P1631	Engine control module (ECM) -incorrect immobilizer code
P1632	Engine control module (ECM) -fuel disable signal received
P1633	Engine control module (ECM), ignition supply voltage
P1634	Engine control module (ECM), ignition supply voltage
P1635	Engine control module (ECM). sensor supply voltage - circuit malfunction
P1636	PCM Stack Overrun
P1637	Alternator warning lamp. control signal -circuit malfunction
P1638	Alternator 'F' terminal -circuit malfunction
P1639	Engine control module (ECM). sensor supply voltage - circuit malfunction

P1640	Engine control module, output driver 1 -supply voltage high
P1641	Malfunction indicator lamp (MIL) -circuit malfunction
P1642	Secondary air injection (AIR) pump relay circuit malfunction
P1643	Glow plug warning lamp -circuit malfunction
P1644	Traction control system (TCS). delivered torque signal - malfunction
P1645	Evaporative Emission Vent Solenoid Control Circuit
P1646	EVAP Vent Solenoid Output Circuit
P1647	Driver 1 Line 7
P1648	Anti-Theft Device Wrong Security Code
P1650	Engine control module, output driver 2 -supply voltage high
P1651	Engine coolant blower motor relay 1 -circuit malfunction
P1652	Engine coolant blower motor relay 2 -circuit malfunction
P1653	Engine oil level 'low' warning lamp, control signal -circuit malfunction
P1654	A/C compressor clutch relay -circuit malfunction
P1655	Evaporative emission (EVAP) canister purge valve -circuit malfunction
P1656	Camshaft position actuator -circuit malfunction
P1657	Skip shift solenoid -circuit malfunction
P1658	Fuel injector control module (FICM) -malfunction
P1660	Engine control module, output driver 3 -supply voltage high
P1661	Malfunction indicator lamp (MIL) -circuit malfunction
P1662	Cruise control, inhibit output circuit malfunction
P1663	Alternator warning lamp, control signal -circuit malfunction
P1664	Skip shift warning lamp -circuit malfunction
P1665	Evaporative emission (EVAP) canister vent valve -circuit malfunction

P1666	Driver 3 Line 6
P1667	Reverse inhibit solenoid -circuit malfunction
P1668	Alternator 'L' terminal -circuit malfunction
P1669	ABS Unit Expected
P166B	Intake air heater -over temperature
P166C	Intake air heater -resistance
P1670	ECM -internal circuit malfunction, ignition coil
P1671	Malfunction indicator lamp (MIL) -circuit malfunction
P1672	Engine oil level 'low' warning lamp, control signal -circuit malfunction
P1673	Engine coolant 'hot' warming lamp, control signal -circuit malfunction
P1674	Tachometer -circuit malfunction
P1675	Evaporative emission (EVAP) canister vent valve -circuit malfunction
P1676	Evaporative emission (EVAP) canister purgevalve -circuit malfunction
P1677	Immobilizer Function Deactivated
P1678	Immobilizer Powertrain Identification Failed
P1679	Immobilizer Environment Identification Failed
P167A	ECM -internal circuit malfunction, heated oxygen sensor (H02S) 1, bank 1
P1680	Engine control module (ECM) -malfunction
P1681	Engine control module (ECM) -malfunction
P1682	Engine control module (ECM) -ignition power supply variation
P1683	Engine control module (ECM) -malfunction
P1684	Transmission Control Module Power Up Temperature Sensor Performance
P1685	Transmission Control Module Power Up Temperature Sensor Circuit Low Voltage

P1686	Transmission Control Module Power Up Temperature Sensor Circuit High Voltage
P1687	Fuel injector control module (FICM) -stuck on
P1689	Traction control system (TCS), delivered torque signal - malfunction
P1690	Engine Control Module Loop Overrun
P1691	Coolant Gauge Circuit Conditions
P1692	Coolant Gauge Circuit High Voltage
P1693	Tachometer Circuit Conditions
P1694	Tachometer Circuit High Voltage
P1695	Remote Keyless Entry Circuit Low Input Conditions
P1696	Remote Keyless Entry Circuit High Input Conditions
P16F3	Engine control module (ECM) -malfunction
P1700	Transmission control module (TCM) -MIL request circuit malfunction
P1701	Transmission MIL Request Circuit
P1705	Park Neutral Output Circuit Conditions
P1713	Transmission Fluid Pressure Sensor/Switch
P1719	Transmission control module (TCM) -detects excessive variation between transmission input/ output shaft speed sensors
P1740	Cruise control system, overdrive disable signal -voltage low
P1743	Throttle Position Invalid Signal
P1760	Transaxle Control Module Supply Voltage Interrupted
P1779	Engine control module (ECM), torque reduction signal via controller area network (CAN) data bus -out of range
P1780	Engine control module (ECM), controller area network (CAN) data bus -lost communication with transmission control module (TCM)
P1781	Engine control module (ECM), torque reduction signal -out of range

P1790	Transmission Control Module Checksum
P1791	Engine control module (ECM), accelerator pedal position (APP) sensor signal via controller area network (CAN) data bus -out of range
P1792	Engine control module (ECM), engine coolant temperature (ECT) sensor signal via controller area network (CAN) data bus -out of range
P1793	Transmission Control Module Stack Overrun
P1795	Throttle Body Position
P1800	ECM to TCM Engine Coolant Signal
P1801	Performance Selector Switch Failure
P1804	Ground Control Relay
P1810	Transmission fluid pressure (TFP) switch manual valve position
P1811	Shift time too long -adaptation limit reached
P1812	Transmission Fluid Overtemperature
P1813	Torque Control Solenoid Malfunction
P1814	Torque converter clutch (TCC) -over-stressed
P1815	A/T Range Sensor Circuit Malfunction
P1816	Transmission fluid pressure (TFP) switch -invalid gear selection
P1818	Transmission fluid pressure (TFP) switch -invalid gear selection
P1819	Transmission range (TR) switch, signals 'A/B/C &P' -signal variation
P1820	Transmission range (TR) switch, signal 'A' voltage low
P1822	Transmission range (TR) switch, signal 'B' voltage high
P1823	Transmission range (TR) switch, signal 'P' voltage low
P1824	Internal Mode Switch 'P' Circuit High Voltage
P1825	Transmission range (TR) switch, signals 'A/B/C &P' incorrect signal
P1826	Transmission range (TR) switch, signal 'C' voltage high

P1831	PC Solenoid Power Circuit Low Voltage
P1833	A/T Solenoids Power Circuit Low Voltage
P1835	Kick-Down Switch Circuit
P1836	Kick-Down Switch Failed Open
P1837	Kick-Down Switch Failed Short
P1838	Internal Mode Switch 'A' Circuit High Voltage
P1839	Internal Mode Switch 'C' Circuit Low Voltage
P1840	Internal Mode Switch 'S' Circuit Low Voltage
P1841	Internal Mode Switch 'S' Circuit High Voltage
P1842	1-2 Shift Solenoid Circuit Low Input Voltage
P1843	1-2 Shift Solenoid Circuit High Input Voltage
P1844	Transmission Fluid Pressure Sensor/Switch 'A' Circuit Intermittent
P1845	2-3 Shift Solenoid Circuit Low Input Voltage
P1847	2-3 Shift Solenoid Circuit High Input Voltage
P1850	Brake Band Apply Solenoid Circuit
P1852	Brake Band Apply Solenoid Low Input Voltage
P1853	Brake Band Apply Solenoid High Input Voltage
P1860	Torque converter clutch (TCC) solenoid -circuit malfunction
P1864	Torque Converter Clutch Enable Solenoid Electrical Fault Conditions
P1868	Transmission fluid life
P1870	Torque converter clutch (TCC) -slip speed excessive
P1873	Torque Converter Clutch Stator Temperature Switch Circuit Low
P1874	Torque Converter Clutch Stator Temperature Switch Circuit High
P1875	Transmission, 4WD low selection signal-circuit malfunction
P1884	TCC Enable/Shift Light Circuit

P1886	Transaxle Shift Timing Solenoid Performance
P1887	Torque converter clutch (TCC) solenoid release switch - circuit malfunction
P1890	Throttle Position Signal Input
P1891	Throttle Position Sensor PWM Signal Low
P1892	Throttle Position Sensor PWM Signal High
P1893	Engine Torque Signal Low Voltage
P1894	Engine Torque Signal High Voltage
P1895	Engine Torque Delivered Circuit
P1915	Internal Mode Switch Start/Wrong Range
P3400	Cylinder cut-out system -malfunction
P3401	Cylinder cut-out solenoid, cylinder 1 malfunction
P3425	Cylinder cut-out solenoid, cylinder 4 malfunction
P3441	Cylinder cut-out solenoid, cylinder 6 malfunction
P3449	Cylinder cut-out solenoid, cylinder 7 malfunction
U1000	CAN data bus -communication malfunction
U1016	CAN data bus, engine control module (ECM)/antilock brake system (ABS)/ traction control system (TCS)/instrumentation control module diagnostic control module - loss of serial communication
U1026	Transmission control module (TCM)/four wheel drive control module, CAN data buscommunication malfunction
U1040	Antilock brake system (ABS)/traction control system (TCS), CAN data bus -communication malfunction
U1041	Antilock brake system (ABS)/traction control system (TCS), CAN data bus -communication malfunction
U1064	. Body control module (BCM), CAN data bus - communication malfunction
U1192	Engine control module (ECM)/immobilizer control module, CAN data bus -Signal malfunction

<b>U1193</b>	Engine control module (ECM)/immobilizer control module, CAN data bus -signal malfunction
<b>U1300</b>	CAN data bus -signal low
<b>U1301</b>	CAN data bus -Signal high
<b>U1510</b>	Lost Communication With HVAC Control Module
<b>U1800</b>	Engine control module (ECM)/fuel injector control module (FICM), CAN data bus - communication malfunction
<b>U1802</b>	Fuel pump control module (FPCM)communication malfunction
<b>U2104</b>	Engine control module (ECM)/transmissioncontrol module (TCM)/fuel injector control module (FICM), CAN data bus communication malfunction
<b>U2106</b>	Engine control module (ECM)/transmission control module (TCM)/fuel injector control module (FICM), CAN data bus communication malfunction

# CHRYSLER & JEEP



Codes	Definition
P1001	Ignition Key Off Timer Performance Too Fast
P1002	Ignition Key Off Timer Performance Too Slow
P1004	Intake manifold air control valve (short runner) - performance
P1005	Intake manifold air valve control -performance
P1011	Fuel Pump Delivery Pressure Too Low
P1012	Fuel Pump Delivery Pressure Too High
<b>P1100 – P1199 (Fuel and air metering)</b>	
P1101	Airbag Control Module Signal Received
P1102	Viscous/Cabin Heater Relay Circuit Condition
P1105	tables Barometric pressure (BARO) read solenoid -circuit malfunction
P1106	Turbocharger (TC) boost pressure actuator range/performance problem
P1107	BARO Solenoid Performance
P1110	Decreased Engine Performance Condition High IAT Temperature
P1112	Intake Air Temperature Sensor Circuit Intermittent Low Voltage
P1115	Engine coolant temperature (ECT) sensor/ intake air temperature (IAT) sensor/ outside air temperature sensor -signal variation
P1128	Closed loop fuel control not achieved -bank 1
P1129	Closed loop fuel control not achieved -bank 2
P1131	Glow Plug Control Module Internal Fault-Voltage Supply Concern
P1135	Glow Plug Control Module Voltage Supply Concern
P1140	Vacuum Reservoir Solenoid Circuit Condition
P1142	Fuel Pressure Solenoid Circuit Condition
P1143	Fuel Rail Pressure Malfunction Positive Pressure Deviation

P1144	Fuel Rail Pressure Malfunction Positive Volume Deviation
P1148	Fuel Rail Pressure Malfunction Pressure Drop In Over-run
P1151	Fuel Rail Pressure Malfunction Maximum Positive Deviation
P1152	Fuel Rail Pressure Malfunction Positive Deviation Fuel Pressure Solenoid Setpoint
P1153	Fuel Rail Pressure Malfunction Negative Deviation Fuel Pressure Solenoid Setpoint
P1154	Fuel Rail Pressure Malfunction Rail Pressure Is Too Low
P1155	Fuel Rail Pressure Malfunction Rail Pressure Is Too High
P1156	Fuel Rail Pressure Malfunction Plausibility
P1159	Improper Start Attempt
P1160	Ignition Voltage
P1167	Capacitor Voltage 1
P1169	ECM A/D Converter Error
P1180	Decreased Engine Performance Condition High Fuel Temperature Condition
P1187	Turbocharger (TC) boost pressure sensorrage/performance problem
P1188	Turbocharger (TC) boost pressure sensorrage/performance problem
P1189	Turbocharger (TC) boost pressure sensor-voltage low
P1190	Turbocharger (TC) boost pressure sensorvoltage high
P1192	Intake air temperature (IAT) sensor -voltage low
P1193	Intake air temperature (IAT) sensor -voltage high
P1195	Heated oxygen sensor (H02S) 1, bank 1 slow response
P1196	Heated oxygen sensor (H02S) 2, bank 1 slow response
P1197	Heated oxygen sensor (H02S) 2, bank 1 slow response
P1198	Radiator Temp Sensor Input Too High
P1199	Radiator Temp Sensor Input Too Low
P1200 – P1299 (Fuel and air metering – injector circuit)	

P1222	Pedal Position Sensor 1 CKT Plausibility
P1234	Pedal Position Sensor 2 CKT Plausibility
P1239	Engine oil temperature (EOT) -temperature too low
P1250	Vacuum Reservoir Solenoid Open Circuit
P1251	Vacuum Reservoir Solenoid Short To Ground
P1252	Vacuum Reservoir Solenoid Short Circuit
P1272	A/C compressor clutch control circuit 2 voltage low
P1273	A/C compressor clutch control circuit 2 voltage high
P1274	A/C compressor clutch control circuit 2 -open circuit
P1275	NC compressor clutch control circuit 2 -circuit malfunction
P1277	Starter motor control circuit -voltage low
P1278	Starter motor control circuit -voltage high
P1279	Starter motor control circuit -open circuit
P127A	Starter motor control circuit -circuit malfunction
P127C	Fuel pump control circuit -voltage low
P127D	Fuel pump control circuit -voltage high
P127E	Fuel pump control circuit -open circuit
P127F	Fuel pump control circuit -circuit malfunction
P1281	Engine temperature -low for long period
P1282	Fuel pump relay
P1283	Idle Select Signal Invalid Condition
P1284	Fuel Injection Pump Battery Voltage Out Of Range Condition
P1285	Fuel Injection Pump Controller Always On
P1286	Accelerator Position Sensor Supply Voltage Too High
P1287	Fuel Injection Pump Controller Supply Voltage Low Condition
P1288	Intake manifold air control solenoid (short runner)
P1289	Intake manifold air control solenoid
P1290	Compressed natural gas pressure sensor pressure high
P1291	No Temp. Rise Seen From Intake Heaters Conditions

P1292	Compressed natural gas pressure sensor voltagehigh
P1293	Compressed natural gas pressure sensor voltage low
P1294	Idle speed control (ISC) system -rpm lower/ higher than expected
P1295	Throttle position (TP) sensor -supply voltage
P1296	Manifold absolute pressure (MAP) sensor supply voltage
P1297	Manifold absolute pressure (MAP) sensor
P1298	System too lean -at prolonged wide open throttle
P1299	Manifold absolute pressure (MAP) sensor/throttle position (TP) sensor
<b>P1300 – P1399 (Ignition system or misfire)</b>	
P1300	Ignition Timing Adjustment Circuit Conditions
P1386	Engine control module (ECM), knock control -defective
P1388	Engine control relay
P1389	Engine control relay
P1390	Crankshaft position (CKP) sensor/camshaftposition (CMP) sensor -signal synchronisation
P1391	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor -intermittent signal
P1398	Engine control module (ECM) -misfire detection limit reached
P1399	Wait To Start Lamp Circuit Condition
<b>P1400 – P1499 (Emission control)</b>	
P1400	Manifold differential pressure (MOP) sensor,EGR system - circuit malfunction
P1403	Exhaust gas recirculation (EGR) valve position sensor no 5 volt supply
P1404	Exhaust gas recirculation (EGR) valve position sensor malfunction
P1411	Cylinder cut-out solenoid 1 -malfunction
P1414	Cylinder cut-out solenoid 4 -malfunction
P1416	Cylinder cut-out solenoid 6 -malfunction

P1417	Cylinder cut-out solenoid 7 -malfunction
P1462	Fuel Level Output Circuit Low
P1463	Fuel Level Output Circuit High
P1476	Too Little Secondary Air Injection Conditions
P1477	Too Much Secondary Air Injection Conditions
P1478	Battery temperature sensor
P1479	Transmission cooling fan relay -circuit malfunction
P1480	PCV Solenoid Circuit Condition
P1481	EATX RPM Pulse Performance Condition
P1485	Air Injection Solenoid Condition
P1486	Evaporative emission (EVAP) system -blockage detected
P1487	Engine coolant blower motor relay -high speed -circuit malfunction
P1488	Engine control module (ECM) -auxiliary 5 voltoutput low
P1489	Engine coolant blower motor relay
P1490	Engine coolant blower motor relay
P1491	Engine coolant blower motor relay -circuitmalfunction
P1492	Ambient/battery temperature sensor -high input
P1493	Ambient/battery temperature sensor -voltage low
P1494	Evaporative emission (EVAP) leak detection pump - pressure switch
P1495	Evaporative emission (EVAP) leak detection pump solenoid
P1496	Engine control module (ECM) -5 volt output low
P1498	High Speed Radiator Relay Ground Control Conditions
P1499	Hydraulic Cooling Fan Solenoid Circuit Condition
<b>P1500 – P1599 (Vehicle or idle speed control)</b>	
P1500	Alternator -circuit malfunction
P1501	Vehicle over-speed condition -rear axle speed greater than front axle

P1502	Vehicle over-speed condition -front axle speed greater than rear axle
P1505	Vehicle Speed Output Circuit High
P1508	Ambient/Battery Temperature Sensor Volts Too Low
P150D	Cold start emission control -irregular idle speed
P1513	Starter request circuit -switch stuck
P1519	Cruise Control Front Distance Sensor Lens Cracked Missing
P1521	Engine oil sensor module -malfunction
P1524	Oil Pressure Out Of Range Camshaft Advance / Retard Disable
P1572	Brake pedal position (BPP) switch -circuit malfunction
P1573	Brake pedal position (BPP) switch -circuit malfunction
P1593	Cruise control system, multi-function input circuit stuck
P1594	Alternator -voltage high
P1595	Cruise control
P1596	Cruise control master switch -high voltage
P1597	Cruise control master switch -low voltage
P1598	A/C refrigerant pressure sensor -high input
P1599	A/C refrigerant pressure sensor -low input
<b>P1600 – P1699 (ECM – computer output circuit)</b>	
P1600	CAN data bus, rough road signal -signal error
P1602	Engine control module (ECM) not programmed
P1603	Engine control module (ECM) -RAM link error
P1604	Engine control module (ECM) -RAM read/write error
P1607	Engine control module (ECM) -shut down timer error
P1610	Immobilizer control module -circuit malfunction
P1612	Throttle position (TP) control module malfunction
P1618	Engine control module (ECM) -primary 5 volt output erratic
P1628	Engine control module (ECM) -auxiliary 5 volt output erratic
P1631	TCM Internal Processor Clock Performance

P1639	TCM Internal CAN 2 RAM Performance
P1652	CAN data bus -short circuit to ground
P1653	CAN data bus -short circuit to ground
P1680	Clutch pedal position (CPP) switch -circuit malfunction
P1681	CAN data bus, instrumentation -no signal
P1682	Alternator -voltage low
P1683	Cruise control
P1684	Engine control module (ECM) -supply voltage disconnected within last 50 ignition switch ON-OFF cycles
P1685	Key not programmed into immobilizer controlmodule
P1686	CAN data bus, imobilizer control module no signal
P1687	CAN data bus, instrumentation -no signal
P1688	Internal Fuel Injection Pump Controller Failure
P1689	No Communication Between ECM and Injection Pump Module Data
P1690	Fuel Injection Pump CKP Sensor Does Not Agree With ECM CKP Sensor
P1691	Fuel Injection Pump Controller Calibration Error
P1694	CAN data bus, ECM -no signal
P1695	CAN data bus, body control module (BCM) no signal
P1696	Engine control module (ECM) -EEPROM error
P1697	Engine control module (ECM) -EEPROM error
P1698	CAN data bus, TCM -no signal
<b>P1700 – P1799 (Transmission)</b>	
P1745	Line Pressure Too High For Too Long
P1751	Transmission system relay -circuit malfunction
P1753	Transmission Throttle Valve Mechanical Performance
P1755	Intermediate Speed Sensor Mmalfunction
P1756	Governor Press, over 3 PSI in gear (0 MPH) Conditions
P1757	Governor Press. Not at Target at 15-20 PSI Conditions

P1762	Governor Press. Sensor Too Low or High Conditions
P1763	Governor Pressure Sensor Too High Conditions
P1764	Governor Pressure Sensor Too Low Conditions
P1765	Transmission system relay
P1775	Solenoid switch valve locked in TCC (torqueconverter clutch) position
P1776	Solenoid switch valve locked in UR (low/reverse) position
P1781	Over Drive Pressure Switch Sense Circuit
P1782	2/4-OD Pressure Switch Circuit
P1787	OD Hydraulic Pressure Test Failure
P1790	Fault immediately after shift
P1793	Torque reduction communication error
P1794	Transmission speed sensor -ground circuit
P1795	Throttle position (TP) sensor -circuit malfunction
P1797	Manual shift overheat ,

**P1800 – P1899 (Transmission)**

P1854	Manifold absolute pressure (MAP) sensor/ turbocharger (TC) boost pressure sensorrange/ performance problem
P1861	Fuel ,level -variation between tank levels
P1897	Engine control module (ECM) -communication malfunction
P1899	Park/neutral position (PNP) switch -input circuit malfunction
P3400	Cylinder cut-out system, bank 1 -malfunction
P3401	Cylinder cut-out solenoid 1 -circuit malfunction
P3402	Cylinder cut-out solenoid 1 -malfunction
P3425	Cylinder cut-out solenoid 4 -circuit malfunction
P3426	Cylinder cut-out solenoid 4 -malfunction
P3441	Cylinder cut-out solenoid 6 -circuit malfunction
P3442	Cylinder cut-out solenoid 6 -malfunction

P3449	Cylinder cut-out solenoid 7 -circuit malfunction
P3450	Cylinder cut-out solenoid 7 -malfunction
P3497	Cylinder cut-out system, bank 2 malfunction
U110A	Steering column function control module, serialcommunication -circuit malfunction
U110C	Fuel level, serial communication -circuit malfunction
U110E	Outside air temperature, serial communication -circuit malfunction
U110F	Fuel volume, serial communication -circuit malfunction
U1110	Vehicle speed, serial communication -circuit malfunction
U1113	Ale pressure, serial communication -circuit malfunction
U1120	Wheel distance traveled, serial communication -circuit malfunction
U1403	Fuel level, serial communication -implausible signal
U1411	Fuel volume, serial communication -implausible signal
U1412	Vehicle speed, serial communication -implausible signal
U1413	Odometer mileage, serial communication -implausible signal
U1417	LH front wheel, distance traveled -implausible signal
U1418	RH front wheel, distance traveled implausible signal

# DODGE



<b>Codes</b>	<b>Definition</b>
P1001	Ignition coil, 5 -primary circuit high
P1002	Ignition coil, 5 -primary circuit low
P1003	Ignition coil , 5 -primary circuit open
P1004	Intake manifold air control valve (short runner) - performance Ignition coil, 5 -primary circuit range/performance
P1005	Manifold Tuning Valve Control Performance
P1006	Battery Power Off Circuit High
P1007	Ignition Circuit Low
P1008	Ignition Circuit High
P1009	ECU Battery Feed & Power Grounds
P1011	Fuel Pump Delivery Pressure Too Low
P1012	Fuel Pump Delivery Pressure Too High
P1013	Ignition coil, 1 -secondary circuit high
P1014	Ignition coil, 1 -secondary circuit low
P1015	Ignition coil, 1 -secondary range/performance
P1016	Ignition coil, 1 -secondary circuit open
P1017	Ignition coil, 4 -secondary circuit high
P1018	Ignition coil, 4 -secondary circuit low
P1019	Ignition coil, 4 -secondary range/performance
P1021	Fuel Pump Circuit Hi
P1022	Charge Air Temp Circuit Low
P1023	Ignition coil, 3 -secondary range/performance
P1024	Ignition coil, 3 -secondary circuit open
P1025	Ignition coil, 6 -secondary circuit high
P1026	Ignition coil, 6 -secondary circuit low
P1027	Ignition coil, 6 -secondary range/performance
P1028	Ignition coil, 6 -secondary circuit open
P1029	Ignition coil, 2 -secondary circuit high

P1030	Ignition coil, 2 -secondary circuit low
P1031	Ignition coil, 2 -secondary range/performance
P1032	Ignition coil, 2 -secondary circuit open
P1033	Ignition coil, 5 -secondary circuit high
P1034	Ignition coil, 5 -secondary circuit low
P1035	Ignition coil, 5 -secondary range/performance
P1036	Ignition coil, 5 -secondary circuit open
P1037	ISA Closed Throttle Circuit Low
P1038	ISA Closed Throttle Circuit High
P1039	ECU Sees Closed Throttle
P1040	ECU Does Not See Closed Throttle
P1041	ISA Circuits
P1042	TP Sensor Circuit Reads Low
P1043	Park/Neutral Line High
P1044	Park/Neutral Line Low
P1045	Heated oxygen sensor (HO2S) 1, bank 1 system too rich
P1046	Heated oxygen sensor (HO2S) 1, bank 1 system too lean
P1047	Heated oxygen sensor (HO2S) 1, bank 1 inactive
P1048	Heated oxygen sensor (HO2S) 1, bank 1 range/performance
P1049	Heated oxygen sensor (HO2S) 2, bank 1 system too rich
P1050	Heated oxygen sensor (HO2S) 2, bank 1 system too lean
P1051	Heated oxygen sensor (HO2S) 2, bank 1 inactive
P1052	Heated oxygen sensor (HO2S) 2, bank 1 range/performance
P1053	Heated oxygen sensor (HO2S) 1, bank 1 circuit high
P1054	A/T Vehicle Configuration
P1055	Idle RPM Low
P1056	Idle RPM Hi
P1057	Heated oxygen sensor (HO2S) 2, bank 1 circuit high
P1059	MAP Sens Out Of Limits
P1060	Change In MAP Reading Out Of Limits

P1061	MAP Circuits Low
P1062	Coolant Sens Circuit High
P1063	Inactive Coolant Temperature Sensor
P1064	A/C Request Circuit Low
P1065	AIR pump relay -circuit high
P1066	AIR pump relay -circuit low
P1067	AIR pump relay -circuit open
P1068	A/C Request Circuit High
P1069	AIR switching valve -circuit malfunction
P1070	AIR switching valve -circuit malfunction
P1071	AIR switching valve -circuit malfunction
P1073	Intake manifold air control valve -circuit high
P1074	Intake manifold air control valve -circuit low
P1075	Intake manifold air control valve -circuit open
P1077	EVAP canister purge system -performance
P1078	EVAP canister purge system -performance
P1081	EVAP canister purge system -leak
P1085	EVAP canister purge system -leak
P1089	EVAP canister purge system -leak
P1097	EVAP canister purge system -performance
P1101	Ambient air temperature sensor -circuit high
P1102	Viscous/Cabin Heater Relay Circuit Condition
P1103	Turbocharger (TC) wastegate actuator malfunction
P1104	Turbocharger (TC) wastegate regulating valve -circuit malfunction
P1105	Fuel pressure regulator control solenoid -circuit malfunction
P1106	Main relay -control circuit low
P1107	BARO Solenoid Performance
P1108	Main relay -control circuit open

P1110	Decreased Engine Performance Condition High IAT Temperature
P1111	Intake Air Temperature Sensor Circuit Intermittent High VoltageCode
P1112	Intake Air Temperature Sensor Circuit Intermittent Low Voltage
P1114	MAP Sensor Circuit Intermitten Hi Voltage
P1115	Engine coolant temperature (ECT) sensor/intake air temperature (IAT) sensor/ outside air temperature sensor -signal variation
P1117	ECM -internal fault
P1118	ECM -internal fault
P1119	ECM -internal fault
P1121	Decreased Engine Performance Due To High Intake Air Temp
P1122	IAT Sens Circ Interterm High Voltage
P1125	IAT Sensor Circuit Intermitten Low Voltage
P1128	Heated oxygen sensor (H02S) 1, bank 1 signal error
P1129	Heated oxygen sensor (H02S) 1, bank 2 signal error
P1133	ECT Sensor Circuit Interterm Low Voltage
P1134	ECT Sensor Circuit Intermittent High Voltage
P1135	Glow Plug Control Module Voltage Supply Concern
P1140	Vacuum Reservoir Solenoid Circuit Condition
P1142	Fuel Pressure Solenoid Circuit Condition
P1143	Fuel Rail Pressure Malfunction Positive Pressure Deviation
P1144	Fuel Rail Pressure Malfunction Positive Volume Deviation
P1148	Fuel Rail Pressure Malfunction Pressure Drop In Over-run
P1151	Fuel Rail Pressure Malfunction Maximum Positive Deviation
P1152	Fuel Rail Pressure Malfunction Positive Deviation Fuel Pressure Solenoid Setpoint

P1153	Fuel Rail Pressure Malfunction Negative Deviation Fuel Pressure Solenoid Setpoint
P1154	Fuel Rail Pressure Malfunction Rail Pressure Is Too Low
P1155	Fuel Rail Pressure Malfunction Rail Pressure Is Too High
P1159	Improper Start Attempt
P1160	Ignition Voltage
P1167	Capacitor Voltage 1
P1169	ECM A/D Converter Error
P1180	Decreased Engine Performance Condition High Fuel Temperature Condition
P1185	Intake manifold air control valve -circuit high
P1186	Intake manifold air control valve -circuit high
P1187	Fuel rail pressure (FRP) sensor -malfunction
P1188	3rd piston cut-off solenoid -malfunction
P1189	Turbocharger (TC) boost pressure sensor voltage low
P1190	Fuel pressure control solenoid -malfunction
P1191	HO2S Insufficient Switching Bank 1 Sensor 1
P1192	Engine oil sehsor module -malfunction
P1193	Intake air temperature (IAT) sensor -voltage high
P1194	HO2S Insufficient Transition Time Ratio Bank 2 Sensor 1
P1195	Heated oxygen sensor (HO2S) 1, bank 1 slow response
P1196	Heated oxygen sensor (HO2S) 1, bank 2 slow response
P1197	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 2 range/performance
P1198	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 2 range/performance
P1199	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 2 range/performance
P1200	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 2 range/performance

P1201	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 2 range/performance
P1202	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 2 range/performance
P1203	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 2 range/performance
P1204	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 2 range/performance
P1205	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 1 range/performance
P1206	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 1 range/performance
P1207	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 1 range/performance
P1208	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 1, bank 1 range/performance
P1209	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 1 range/performance
P1210	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 1 range/performance
P1211	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 1 range/performance
P1212	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor 2, bank 1 range/performance
P1214	1/1 02 Sensor Slow During Catalyst Monitor
P1216	2/1 02 Sensor Slow During Catalyst Monitor
P1217	1/2 02 Sensor Slow During Catalyst Monitor
P1218	Radiator Temperature Sensor Volts Too High
P1221	CAN data bus, rcs -malfunction
P1222	Accelerator pedal position (APP) sensor 1 malfunction
P1223	Injector Output Circuit
P1234	Accelerator pedal position (APP) sensor 2 malfunction

P1239	Engine oil temperature (EOT) -temperature too low
P1250	Vacuum Reservoir Solenoid Open Circuit
P1251	Vacuum Reservoir Solenoid Short To Ground
P1252	Vacuum Reservoir Solenoid Short Circuit
P1260	Engine control module, output driver -open circuit
P126B	Engine control module, output driver -short to ground
P126C	Engine control module, output driver -short to positive
P126E	Engine control module, output driver excessive current draw
P1271	Radiator Temp Sensor Volts Too Low
P1272	A/C compressor clutch, circuit 2 -voltage low
P1273	A/C compressor clutch, circuit 2 -voltage high
P1274	A/C compressor clutch, circuit 2 -open circuit
P1275	A/C compressor clutch, circuit 2 -circuit malfunction
P1277	Starter motor control circuit -voltage low
P1278	Starter motor control circuit -voltage high
P1279	Starter motor control circuit -open circuit
P127A	Starter motor control circuit -circuit malfunction
P127C	Fuel pump, circuit 2 -voltage low
P127D	Fuel pump, circuit 2 -voltage high
P127E	Fuel pump, circuit 2 -open circuit
P127F	Fuel pump control circuit -circuit malfunction
P1280	Accelerator Pedal Position Sensor 2-3 Correlation
P1281	Engine temperature -low for long period
P1282	Fuel pump relay
P1283	Idle Select Signal Invalid Condition
P1284	Fuel Injection Pump Battery Voltage Out Of Range Condition
P1285	Fuel Injection Pump Controller Always On
P1286	Accelerator Position Sensor Supply Voltage Too High

P1287	Fuel Injection Pump Controller Supply Voltage Low Condition
P1288	Intake manifold air control solenoid (short runner)
P1289	Intake manifold air control solenoid
P1290	Compressed natural gas pressure sensorpressure high
P1291	No Temperature Rise Seen From Intake Air Heater
P1292	Compressed natural gas pressure sensor voltage high
P1293	Compressed natural gas pressure sensor voltage low
P1294	Idle speed control (ISC) system -rpm lower/ higher than expected
P1295	Throttle position (TP) sensor -no 5 volt supply
P1296	Manifold absolute pressure (MAP) sensor no 5 volt supply
P1297	Manifold absolute pressure (MAP) sensor
P1298	System too lean -at prolonged wide open throttle
P1299	Manifold absolute pressure (MAP) sensor/ throttle position (TP) sensor
P129C	Powertrain control module (PCM), inverter control -circuit 2 high
P129E	Powertrain control module (PCM), inverter control-circuit 2 over-current
P1300	Ignition timing adjustment
P1305	Power assisted steering -control circuit high
P1306	Power assisted steering -control circuit low
P1307	Power assisted steering -control circuit malfunction
P1313	Electronic throttle system -throttle valve movement restricted
P1314	Electronic throttle system -throttle valve movement restricted
P1315	Electronic throttle system -throttle valve movement restricted
P1330	Starter control -malfunction
P1335	Crankshaft position (CKP) sensor malfunction

P1336	No 5Vs To Throttle Position Sensor
P1345	Mass air flow (MAF) sensor range/performance
P1346	Mass air flow (MAF) sensor range/performance
P1347	Mass air flow (MAF) sensor range/performance
P1349	Mass air flow (MAF) sensor/throttle position sensor (TPS) - correlation
P1350	Mass air flow (MAF) sensor range/performance
P1351	Mass air flow (MAF) sensor -circuit performance
P1352	Mass air flow (MAF) sensor -circuit performance
P1354	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor -implausible signal
P1360	Oxygen sensors, downstream -signal mismatch
P1361	Lean Operation at Wide Open Throttle
P1380	Vacuum Leak Found IAC Fully Seated
P1381	Crank Position System Variation Not Learned
P1388	Engine control relay
P1389	AIR system -flow excessively high or low
P1390	AIR system -flow excessively high or low
P1391	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor -intermittent signal
P1392	AIR system -flow excessively high or low
P1398	Engine control module (ECM) -misfire detection limit reached
P1399	Wait To Start Lamp Circuit Condition
P1400	Manifold differential pressure (MOP) sensor,exhaust gas recirculation (EGR) system - circuit malfunction
P1403	Exhaust gas recirculation (EGR) system -malfunction
P1404	Exhaust gas recirculation (EGR) valve position sensor malfunction

P1406	Intermittent Loss Of Camshaft Position Or Crankshaft Position Sensor
P1409	Misfire Adaptive Numerator at Limit
P1411	Cylinder cut-out solenoid 1 -malfunction
P1414	Cylinder cut-out solenoid 4 -malfunction
P1415	Wait to Start Lamp Circuit
P1416	Cylinder cut-out solenoid 6 -malfunction
P1417	Cylinder cut-out solenoid 7 -malfunction
P1436	Exhaust gas temperature sensor 1, bank 1 voltage range/performance
P1437	Exhaust gas temperature sensor 1, bank 2 voltage range/performance
P1441	EVAP System Flow During Non-Purge Condition
P1451	Diesel Particulate Filter System Performance
P1461	Engine coolant temperature (ECT) sensor implausible signal
P1462	Engine coolant temperature (ECT) sensorimplausible signal
P1463	Engine coolant temperature (ECT) sensorimplausible signal
P1464	Engine coolant temperature (ECT) sensor implausible signal
P1470	Turbocharger (TC) boost pressure pressure too low/high
P1475	EGR Valve Position
P1476	Too Little Secondary Air Injected
P1477	Too Much Secondary Air Injected
P1478	Ambient/battery temperature sensor
P1479	Transmission Fan Relay Condition
P1480	Glow plug control module -voltage supply fault
P1481	Glow plug(s) -defective
P1482	Glow plug control module -output stage

P1483	Battery Temperature Sensor Volts Out of Limit
P1484	Trans Fan Relay Circuit
P1485	Air Injection Solenoid Condition
P1486	Evaporative emission (EVAP) system -blockage detected
P1487	Engine coolant blower motor relay -high speed -circuit malfunction
P1488	Engine control module (ECM) -auxiliary 5 volt output low
P1489	Engine coolant blower motor relay -high speed
P1490	Engine coolant blower motor relay -low speed
P1491	Engine coolant blower motor relay -circuit malfunction
P1492	Ambient/battery temperature sensor -voltage high
P1493	Ambient/battery temperature sensor -voltage low
P1494	Evaporative emission (EVAP) leak detection pump - pressure switch
P1495	Evaporative emission (EVAP) leak detection pump solenoid
P1496	Engine control module (ECM) -5 volt output low
P1498	High Speed Radiator Relay Ground Control Condition
P1499	Hydraulic Cooling Fan Solenoid Circuit Condition
P1500	Alternator -circuit malfunction
P1501	Vehicle over-speed condition -rear axle speed greater than front axle
P1502	Vehicle over-speed condition -front axle speed greater than rear axle
P1505	Vehicle Speed Output Circuit High
P1508	Ambient/Battery Temperature Sensor Volts Too Low
P1509	Leak Detection Pump Switch or Mechanical Fault
P150D	Cold start emission control -irregular idle speed
P1513	Starter request circuit -switch stuck
P1520	Cruise control master switch -malfunction
P1521	Engine oil sensor module -malfunction

P1524	Oil Pressure Out Of Range Camshaft Advance / Retard Disable
P1572	Brake pedal position (BPP) switch -circuit malfunction
P1573	Brake pedal position (BPP) switch -circuit malfunction
P1593	Cruise control system, multi-function input AIB -circuit stuck
P1594	Alternator -voltage high
P1595	Cruise control
P1596	Cruise control master switch -high voltage
P1597	Cruise control master switch -low voltage
P1598	A/C refrigerant pressure sensor -high input
P1599	Ambient air temperature sensor -low input
P1600	Ambient air temperature sensor -high input
P1602	Engine control module (ECM) not . programmed
P1603	Engine control module (ECM) -battery supplyvoltage
P1604	. Engine control module (ECM) -RAM read/ write error
P1607	Engine control module (ECM) -shut down timererror
P1610	Immobilizer control module -circuit malfunction
P1611	Engine control module (ECM) -5 volt output erratic
P1612	Engine control module (ECM) -supply voltage
P1613	Engine control module (ECM) -internal fault
P1614	Engine control module (ECM) -internal fault
P1615	Engine control module (ECM) -supply voltage
P1617	Engine control module (ECM) -EPROM error
P1618	Engine control module (ECM) -primary 5 volt output erratic
P1621	Speed Control Switch Always High
P1626	Speed Control Switch Always Low
P1627	A/C Pressure Sensor Volts Too High
P1628	Engine control module (ECM) -auxiliary 5 voltoutput erratic
P1630	Immobilizer control module -malfunction
P1631	TCM Internal Processor Clock Performance

P1635	PCM Memory Performance or Write
P1639	TCM Internal CAN 2 RAM Performance
P1641	Cabin Heater 1
P1643	Vehicle Theft System Powertrain Control Module in Learn Mode
P1646	Vehicle Theft System Improper Password
P1652	CAN data bus -short circuit to ground
P1653	5V Ref Circuit
P1654	MIL Control Circuit
P1655	Wait To Start Lamp Control Circuit
P1656	5V Reference Circuit
P1661	Injectors -voltage low/high
P1663	Fuel pressure control solenoid -defective
P1666	Engine control module (ECM) -engine shut-off control
P1680	Communication Bus
P1681	CAN data bus, SRS control module malfunction
P1682	Altemator -voltage low
P1683	Cruise control
P1684	Engine control module (ECM) -supply voltage disconnected within last 50 ignition switch ON-OFF cycles
P1685	Key not programmed into immobilizer controlmodule
P1686	CAN data bus, immobilizer control module no signal
P1687	CAN data bus, instrumentation -no signal
P1688	Internal Fuel Injection Pump Controller Failure
P1689	No Communication Between ECM and Injection Pump Module Data
P1690	Fuel Injection Pump CKP Sensor Does Not Agree With ECM CKP Sensor
P1691	Fuel Injection Pump Controller Calibration Error
P1692	No Cluster BUS Message

P1693	Engine control module (ECM)
P1694	CAN data bus, ECM no signal
P1695	CAN data bus, body control module (SCM) no signal
P1696	Engine control module (ECM) -EEPROM error
P1697	Engine control module (ECM) -EEPROM error
P1698	CAN data bus, transmission control module(TCM) no signal
P1715	Transmission speed sensor AIB -circuit malfunction
P1719	Transmission System Conditions
P1736	Transmission -gear/input speed/output speed ratio error
P1740	Torque Converter Clutch or Overdrive Solenoid Performance Condition
P1745	Line Pressure Too High For Too Long
P1749	Transmission Throttle Valve Position Sensor Circuit Low
P1750	Torque converter clutch (TCC) solenoid/ transmission shift control valve/ transmission pressure control solenoid -circuit malfunction
P1751	Transmission system relay -circuit malfunction
P1753	Transmission Throttle Valve Mechanical Performance
P1755	Intermediate Speed Sensor Mmalfunctrion
P1756	Govemor pressure not equal to target (15-20 PSI) -mid pressure malfunction
P1757	Governor pressure not equal to target -low pressure malfunction
P1762	Govemor pressure sensor -incorrect signal
P1763	Governor pressure sensor -signal high
P1764	Governor pressure sensor -signal low
P1765	Transmission system relay
P1775	Solenoid switch valve locked in TCC (torque converter clutch) position
P1776	Solenoid switch valve locked in UR (low/reverse) position
P1781	Over Drive Pressure Switch Sense Circuit

P1782	2/4-OD Pressure Switch Circuit
P1787	OD Hydraulic Pressure Test Failure
P1790	Fault immediately after shift
P1793	Torque reduction communication error
P1794	Transmission speed sensor -ground circuit
P1795	Throttle position (TP) sensor -circuit malfunction
P1797	Manual shift overheat
P1854	Manifold absolute pressure (MAP) sensor/turbocharger (Te) boost pressure sensor range/ performance problem
P1861	Fuel level -variation between tank levels
P1897	Engine control module (ECM) communication malfunction
P1899	Park/neutral position (PNP) switch -input circuit malfunction
P1901	Engine oil pressure sensor range/performance
P1902	Engine oil pressure sensor range/performance
P1909	Manifold absolute pressure (MAP) sensor circuit high
P1910	Manifold absolute pressure (MAP) sensor circuit low
P1913	Manifold absolute pressure (MAP) sensor range/performance
P1914	Manifold absolute pressure (MAP) sensor range/performance
P1915	Manifold absolute pressure (MAP) sensor range/performance
P1916	Manifold absolute pressure (MAP) sensor range/performance
P1926	CAN Communication With Other Control Units Installed Not Possible
P3050	Oxygen sensor -circuit malfunction
P3080	Engine oil pressure sensor -circuit malfunction
P3097	Intake air temperature (IAT) sensor -value too high

P3098	Intake air temperature (IAT) sensor -value too low
P3099	Intake air temperature (IAT) sensor -value too low
P3121	Catalyst temperature sensor -circuit malfunction
P3131	Oxygen sensor 1, bank 1 -circuit malfunction
P3133	Oxygen sensor -supply voltage low
P3134	Oxygen sensor -supply voltage low
P3135	Particulate filter -implausible signal
P3136	Particulate filter -signal high
P3137	Particulate filter -signal low
P3139	Particulate filter -implausible signal
P3154	Intake air temperature (IAT) sensor -signal high
P3155	Intake air temperature (IAT) sensor -signal low
P3400	Cylinder cut-out system, bank 1 -malfunction
P3401	Cylinder cut-out solenoid 1 -circuit malfunction
P3402	Cylinder cut-out solenoid 1 -malfunction
P3425	Cylinder cut-out solenoid 4 -circuit malfunction
P3426	Cylinder cut-out solenoid 4 -malfunction
P3441	Cylinder cut-out solenoid 6 -circuit malfunction
P3442	Cylinder cut-out solenoid 6 -malfunction
P3449	Cylinder cut-out solenoid 7 -circuit malfunction
P3450	Cylinder cut-out solenoid 7 -malfunction
P3497	Cylinder cut-out system, bank 2 -malfunction
U110A	Steering column function control module, serialcommunication -circuit malfunction
U110C	Fuel level, serial communication -circuit malfunction
U110E	Outside air temperature, serial communication -circuit malfunction
U110F	Fuel volume, serial communication -circuit malfunction
U1110	Vehicle speed, serial communication -circuit malfunction
U1111	Odometer mileage, serial communication - circuitmalfunction

<b>U1113</b>	NC pressure sensor -communication malfunction
<b>U1120</b>	Wheel distance traveled, serial communication -circuit malfunction
<b>U1403</b>	Fuel level, serial communication -implausible signal
<b>U1411</b>	Fuel volume, serial communication implausible signal
<b>U1412</b>	Vehicle speed, serial communication -implausible signal
<b>U1413</b>	Odometer mileage, serial communication implausible signal
<b>U1417</b>	LH front wheel, distance traveled -implausible signal
<b>U1418</b>	RH front wheel, distance traveled implausible signal

# FORD



Codes	Definition
P1001	Key On/Engine Running Not Able To Complete
P1039	Vehicle Speed Signal Missing or Improper
P1051	Brake Switch Signal Missing or Improper
P1100	Mass Air Flow Sensor Intermittent
P1101	Mass Air Flow Sensor Out of Self-Test Range
P1102	Mass Air Flow Sensor In Range But Lower Than Expected
P1105	Dual alternator upper -malfunction
P1106	Dual alternator lower -malfunction
P1107	Dual Alternator Lower Circuit Malfunction
P1108	Dual Alternator Battery Lamp Circuit Malfunction
P1109	IAT Sensor 2 Intermittent Condition
P1111	CAT System Fault
P1112	Intake Air Temperature Sensor Intermittent Condition
P1114	Intake Air Temperature Sensor 2 Circuit Low
P1115	Intake Air Temperature Sensor 2 Circuit High
P1116	Engine Coolant Temperature Sensor is Out of Self-Test Range
P1117	Engine Coolant Temperature Sensor Intermittent
P1118	Manifold Absolute Temperature Circuit Low Input
P1119	Manifold Absolute Temperature Circuit High Input
P1120	Throttle Position Sensor Out of Range
P1121	Throttle Position Sensor Inconsistent with Mass Air Flow Sensor
P1122	Throttle Position Sensor Circuit Intermittent Low Voltage
P1123	Throttle Position Sensor Circuit Intermittent High Voltage
P1124	Throttle Position Sensor Out of Self-Test Range
P1125	Throttle Position Sensor Intermittent
P1127	Exhaust Not Warm Enough Downstream O2 Sensor Not Tested
P1128	Front O2 Sensor Connectors Swapped

P1129	Downstream Oxygen Sensors Swapped from Bank to Bank
P1130	Lack of Upstream Heated Oxygen Sensor Switch Adaptive Fuel Limit Bank 1
P1131	Lack of Upstream Heated Oxygen Sensor Switch Sensor Indicates Lean Bank 1
P1132	Lack of Upstream Heated Oxygen Sensor Switch Sensor Indicates Rich Bank 1
P1133	Bank 1 Fuel Control Shifted Lean
P1135	Pedal Position Sensor 'A' Circuit Intermittent
P1136	Crankshaft Position Sensor And Or Camshaft Position Sensor Input Signal to PCM Concerns
P1137	Lack Of O2 Switches Bank 1 Sensor 2 Lean
P1138	Lack Of HO2S Switches Bank 1 Sensor 2 Rich
P1139	Water In Fuel Indicator Circuit Malfunction
P1140	Water In Fuel Condition
P1141	Fuel Restriction Indicator Circuit Malfunction
P1142	Fuel Restriction Condition
P1145	Calculated Torque Error
P1148	Alternator 2 -circuit malfunction
P1149	Alternator 2 -high input
P1150	Lack of Upstream Heated Oxygen Sensor Switch Adaptive Fuel Limit Bank 2
P1151	Lack of Upstream Heated Oxygen Sensor Switch Sensor Indicates Lean Bank 2
P1152	Lack of Upstream Heated Oxygen Sensor Switch Sensor Indicates Rich Bank 2
P1153	Bank 2 Fuel Control Shifted Lean
P1154	Bank 2 Fuel Control Shifted Rich
P1155	Alternative Fuel Controller
P1156	Fuel Selector Switch Circuit
P1157	Lack of O2 Switches Bank 2 Sensor 2 Indicates Lean

P1158	Lack of O2 Switches Bank 2 Sensor 2 Indicates Lean
P115E	Engine control module (ECM) -data transmission fault
P1168	Fuel Rail Pressure Sensor Condition Low Pressure
P1169	Fuel Rail Sensor In-Range High Failure
P1170	Engine Shut Off Solenoid Fault
P1171	Rotor Sensor Fault
P1172	Rotor Control Fault
P1173	Rotor Calibration Fault
P1174	Cam Sensor Fault
P1175	Cam Control Fault
P1176	Cam Calibration Fault
P1177	Synchronization Fault
P117A	Engine control module (ECM) -engine oil temperature
P1180	Fuel Delivery System Malfunction Low
P1181	Fuel Delivery System Malfunction High
P1183	Engine Oil Temperature Sensor Circuit Malfunction
P1184	Engine Oil Temperature Out Of Self Test Range
P1185	FTS High Fuel Pump Temperature Sensor High
P1186	Fuel Pump Temperature Sensor Low
P1187	Variant Selection
P1188	Calibration Memory Fault
P1189	Pump Speed Signal Fault
P1190	Calibration Resistor Out Of Range
P1191	Key Line Voltage
P1192	Voltage External
P1193	EGR Drive Overcurrent
P1194	Engine Control Unit A/D Converter
P1195	SCP HBCC Failed To Initialize
P1196	Key Off Voltage High
P1197	Key Off Voltage Low

P1198	Pump Rotor Control Underfueling
P1209	Injector Control Pressure System Fault
P1210	Injector Control Pressure Above Expected Level
P1211	Injector Control Pressure Sensor Above / Below Desired
P1212	Injector Control Pressure Not Detected During Crank
P1213	Start Injector Circuit Malfunction
P1214	Pedal Position Sensor 'B' Circuit Intermittent
P1215	Pedal Position Sensor 'C' Circuit Low Input
P1216	Pedal Position Sensor 'C' Circuit High Input
P1217	Pedal Position Sensor 'C' Circuit Intermittent
P1218	CID High
P1219	CID Stuck Low
P1220	Series Throttle Control Fault Detected
P1221	Traction Control System Malfunction
P1222	Traction Control Output Circuit Malfunction
P1223	Pedal Demand Sensor B Circuit High Input
P1224	Throttle Position Sensor 'B' Out of Self-Test Range
P1227	Wastegate Failed Closed Over Pressure
P1228	Wastegate Failed Open Under Pressure
P1229	Supercharger Intercooler Pump Not Operating Condition
P1230	Low Speed Fuel Pump Fault Condition
P1231	High Speed Fuel Pump Relay Activated
P1232	Low Speed Fuel Pump Primary Circuit Failure
P1233	Fuel Pump Driver Module Disabled Or Off Line
P1234	Fuel Pump Driver Module Disabled Or Off Line
P1235	Fuel Pump Control Out of Range
P1236	Fuel Pump Control Out of Range
P1237	Fuel Pump Secondary Circuit Fault
P1238	Fuel Pump Secondary Circuit Fault
P1239	Speed Fuel Pump Positive Feed Fault

P1243	Second Fuel Pump Faulty or Ground Fault
P1244	Alternator Load Input Failed High
P1245	Alternator Load Input Failed Low
P1246	Alternator Load Input Failed
P1247	Turbo Boost Pressure Low
P1248	Turbo Boost Pressure Not Detected
P1249	Wastegate Control Valve Performance
P1250	Lack Of Power To Fuel Pressure Regulator Control Solenoid
P1252	Fuel Pressure Control Solenoid Valve 2 Malfunction
P1253	Pedal Correlation PDS1 and LPDS Low
P1254	Pedal Correlation PDS2 and LPDS High
P1255	Pedal Correlation PDS2 and LPDS Low
P1256	Pedal Correlation PDS1 and HPDS
P1257	Pedal Correlation PDS2 and HPDS
P1258	Pedal Correlation PDS1 and PDS2
P1260	Theft Detected - Vehicle Immobilized
P1261	Cylinder #1 High To Low Side Short
P1262	Cylinder #2 High To Low Side Short
P1263	Cylinder #3 High To Low Side Short
P1264	Cylinder #4 High To Low Side Short
P1265	Cylinder #5 High To Low Side Short
P1266	Cylinder #6 High To Low Side Short
P1267	Cylinder #7 High To Low Side Short
P1268	Cylinder #8 High To Low Side Short
P1270	Engine RPM Or Speed Limiter Reached
P1271	Cylinder #1 High To Low Side Open
P1272	Cylinder #2 High To Low Side Open
P1273	Cylinder #3 High To Low Side Open
P1274	Cylinder #4 High To Low Side Open

P1275	Cylinder #5 High To Low Side Open
P1276	Cylinder #6 High To Low Side Open
P1277	Cylinder #7 High To Low Side Open
P1278	Cylinder #8 High To Low Side Open
P1280	Injection Control Pressure Out Of Range Low
P1281	Injection Control Pressure Out Of Range High
P1282	Excessive Injection Control Pressure
P1283	Fuel pressure regulator control solenoid -circuit malfunction
P1284	Self-test not complete -fuel pressure sensor failure
P1285	Cylinder Head Over Temperature Condition
P1286	Fuel Pulse In Range But Lower Than Expected
P1287	Fuel Pulse In Range But Higher Than Expected
P1288	Cylinder Head Temperature Sensor Out of Self-Test Range
P1289	Cylinder Head Temperature Sensor Signal Greater Than Self-Test Range
P128A	Engine control module (ECM)/cylinder head temperature (CHT) sensor -high input
P1290	Cylinder Head Temperature Sensor Signal Less Than Self-Test Range
P1291	Injector High Side Short To GND Or VBATT Bank 1
P1292	Injector High Side Short To GND Or VBATT - Bank 2
P1293	High Side Open Bank No.1
P1294	High Side Open Bank No. 2
P1295	Multi-Faults Bank 1 With Low Side Shorts
P1296	Multi-Faults Bank 2 With Low Side Shorts
P1297	Injector High Sides Shorted Together
P1298	Injector control module -internal fault
P1299	Cylinder Head Temperature Sensor Detected Engine Overheating Condition
P1300 – P1399 (Ignition system or misfire)	

P1300	Boost Pressure Malfunction
P1301	Boost Pressure Pressure High
P1302	Boost Pressure Pressure Low
P1303	EGR Calibration Fault
P1304	EGR Calibration High
P1305	EGR Calibration Low
P1306	Kickdown Relay Pull In Circuit Fault
P1307	Kickdown Relay Hold Circuit Fault
P1308	A/C Clutch Circuit Fault
P1309	Misfire Detection Monitor Not enabled
P1316	Ignition Driver Monitor Codes Detected
P1317	Ignition Driver Monitor Codes Not Updated
P1330	Injector Control Pressure
P1331	Turbocharger / Supercharger Boost Pressure Control Open Circuit
P1332	Turbocharger / Supercharger Boost Pressure Control Circuit Low
P1334	Exhaust gas recirculation (EGR)/throttle position sensor - range/performance problem
P1335	EGR Position Sensor Minimum Stop Performance
P1336	Crankshaft Position Or Camshaft Position Sensor Input Signal Error
P1340	Camshaft Position Sensor 'B' Circuit Malfunction
P1349	Fuel Level Sensor 'B' Circuit High Input
P1351	Ignition Diagnostic Monitor Circuit Input Fault
P1352	Ignition Coil 'A' Primary Circuit
P1353	Ignition Coil 'B' Primary Circuit
P1354	Ignition Coil 'C' Primary Circuit
P1355	Ignition Coil 'D' Primary Circuit
P1356	Loss Of Ignition Diagnostic Module Input To PCM
P1357	Ignition Diagnostic Monitor Pulsewidth Not Defined

P1358	Ignition Diagnostic Monitor Signal Out of Self-Test Range
P1359	Spark Output Circuit Fault
P1360	Ignition Coil 'A' Secondary Circuit Malfunction
P1361	Ignition Coil 'B' Secondary Circuit Malfunction
P1362	Ignition Coil 'C' Secondary Circuit Malfunction
P1363	Ignition Coil 'D' Secondary Circuit Malfunction
P1364	Ignition Coil Primary Circuit Fault
P1365	Ignition Coil Secondary Circuit Failure
P1369	Engine Temperature Light Monitor Failure
P1378	Fuel Injection Control Module Circuit Low Voltage
P1379	Fuel Injection Control Module Circuit High Voltage
P1380	Variable Cam Timing Solenoid 'A' Circuit Condition
P1381	Variable Cam Timing Over Advance Bank 1
P1383	Variable Cam Timing Over Retarded Bank 1
P1385	Variable Cam Timing Solenoid 'B' Malfunction
P1386	Variable Cam Timing Over Advance Bank 2
P1388	Variable Cam Timing Over Retarded Bank 2
P1389	Glow Plug Circuit High Side Low Input
P138B	Glow Plug Control Module System Voltage
P1390	Octane Adjust Out of Self-Test Range
P1391	Glow Plug Circuit Low Input Bank 1
P1392	Glow Plug Circuit High Input Bank 1
P1393	Glow Plug Circuit Low Input Bank 2
P1394	Glow Plug Circuit High Input Bank 2
P1395	Glow Plug Monitor Fault Bank 1
P1396	Glow Plug Monitor Fault Bank 2
P1397	System Voltage Out Of Self Test Range
P1399	Glow Plug Circuit High Side High Input
P1400	Differential Pressure Feedback Electronic Sensor Circuit Low Voltage

P1401	DPFE Sensor Circuit High
P1402	EGR Metering Orifice Restricted
P1403	Differential Pressure Feedback Electronic Sensor Hoses Reversed
P1404	EGR Valve Stuck Closed
P1405	DPF EGR Sensor Circuit High Voltage Detected
P1406	DPFE Sensor Circuit Downstream Hose
P1407	Exhaust Gas Recirculation Flow Out Of Self-Test Range
P1408	EGR Flow Out Of Self-Test Range
P1409	EGR Vacuum Regulator Solenoid Circuit Malfunction
P1410	EGR Barometric Pressure Sensor VREF Voltage
P1411	Secondary Air Injection Downstream Flow
P1413	Secondary Air Injection System Monitor Circuit Low Voltage
P1414	Secondary Air Injection System Monitor Circuit High Voltage
P1420	Catalyst Temperature Sensor
P1421	Catalyst Damage
P1422	Exhaust Gas Ignition Temperature Sensor
P1431	Misfire Monitor Disabled Unable to Learn Trigger Wheel Profile
P1432	Thermostat Heater Control Circuit Failure
P1433	A/C Refrigerant Temperature Circuit Low
P1434	A/C Refrigerant Temperature Circuit High
P1435	A/C Refrigerant Temperature Circuit Range/Performance
P1436	A/C Evaporator Air Temperature Circuit Low
P1437	A/C Evaporator Air Temperature Circuit High
P1438	A/C Evaporator Air Temperature Circuit Range/Performance
P1442	EVAP System Small Leak Detected

P1443	EVAP Control System Purge Control Solenoid or Purge Control Valve Fault
P1444	Purge Flow Sensor Circuit Input Low
P1445	Purge Flow Sensor Circuit High Condition
P1449	EVAP System Unable To Hold Vacuum
P1450	Unable to Bleed Up Bleed Fuel Tank Vacuum
P1451	EVAP Control System Canister Vent Solenoid Circuit Malfunction
P1452	Unable To Bleed Up Fuel Tank Vacuum
P1455	Exhaust Gas Temperature Sensor 1 Range/Performance
P1457	Unable To Pull Vacuum In Tank
P145E	Positive crankcase ventilation (PCV) heater circuit malfunction
P1460	Wide Open Throttle Air Conditioning Cutoff Circuit Malfunction
P1461	Air Conditioning Pressure Sensor Circuit High
P1462	Air Conditioning Pressure Sensor Circuit Low
P1463	Air Conditioning Pressure Sensor Insufficient Pressure Change
P1464	Air Conditioning Demand Out Of Self Test Range
P1465	Air Conditioning Relay Circuit Malfunction
P1466	A/C Refrigerant Temperature Sensor/Circuit Malfunction
P1469	Low Air Conditioning Cycling Period
P1473	Fan Secondary High With Fans Off
P1474	Low Fan Control Primary Circuit
P1477	Medium Cooling Fan Control Primary Circuit Failure
P1479	High Fan Control Primary Circuit
P1480	Fan Secondary Low With Low Fans On
P1481	Fan Secondary Low Eith High Fans On
P1482	SCP
P1483	Power to Cooling Fan Exceeded Normal Draw

P1484	Open Power Ground To Variable Load Control Module
P1485	Engine Gas Recirculation Valve Circuit Malfunction
P1487	EGR Check Solenoid Circuit Failure
P1489	PCV Heater Control Circuit Fault
P1500	Vehicle Speed Sensor
P1501	Vehicle Speed Sensor Out Of Self Test Range
P1502	Vehicle Speed Sensor Intermittent
P1504	Intake Air Control Circuit Malfunction
P1505	Idle Air Control System at Adaptive Clip
P1506	Idle Air Control Overspeed Error
P1507	Idle Air Control Under Speed Error
P1512	Intake Manifold Runner Control Input Error Bank 1
P1513	Intake Manifold Runner Control Stuck Closed Bank 2
P1516	Intake Manifold Runner Control Input Error Bank 1
P1517	Intake Manifold Runner Control Input Error Bank 2
P1518	Intake Manifold Runner Control Fault Stuck Open
P1519	Intake Manifold Runner Control Fault Stuck Closed
P151A	Intake manifold runner control (IMRC) module - malfunction
P1520	Intake Manifold Runner Control Circuit Fault
P1530	Open or Short to A/C Compressor Clutch Circuit
P1531	Invalid Test Accelerator Pedal Movement
P1532	Intake Manifold Communication Control Circuit Bank 2
P1533	AAI Circuit Malfunction
P1534	Inertia Switch Activated
P1536	Parking Brake Switch Circuit Failure
P1537	Intake Manifold Runner Control Stuck Open Bank 1
P1538	Intake Manifold Runner Control Stuck Open Bank 2
P1539	Power to A/C Compressor Clutch Circuit Exceeded Normal Current Draw
P1548	Engine Air Filter Restriction

P1549	Intake Manifold Communication Control Circuit Malfunction
P1550	Power Steering Pressure Sensor Malfunction
P1561	Brake Line Pressure Sensor Circuit
P1565	Speed Control Command Switch Out of Range High
P1566	Speed Control Command Switch Out of Range Low
P1567	Speed Control Output Circuit Continuity
P1568	Speed Control Unable To Hold Speed
P1572	Brake Pedal Switch Circuit Malfunction
P1573	Throttle Position Not Available
P1574	Stop Lamp Switch Circuit
P1575	Pedal Position Out of Self Test Range
P1576	Accelerator Pedal Position Sensor Signal Malfunction
P1577	Pedal Position Sensor Disagreement
P1578	ETC Power Less Than Demand
P1579	Electronic Throttle Control In Power Limiting Mode
P1580	Electronic Throttle Monitor PCM Override
P1581	Electronic Throttle Monitor Malfunction
P1582	Electronic Throttle Monitor Data Available
P1583	Electronic Throttle Monitor Cruise Disable
P1584	Throttle Control Unit Input Circuit Malfunction
P1585	Throttle Control Unit Malfunction
P1586	Throttle Control Unit Throttle Position Malfunction
P1587	Throttle Control Unit Modulated Command Malfunction
P1588	Throttle Control Unit Detected Loss of Return Spring
P1589	Throttle Control Unit Unable To Control Desired Throttle Angle
P1600	Loss of KAM Power Open Circuit
P1605	PCM Keep Alive Memory Test Error Conditions
P1608	Watchdog Malfunction
P1610	Engine control module (ECM)

P1611	Engine control module (ECM)
P1615	Engine control module (ECM)
P1616	Engine control module (ECM)
P1617	Engine control module (ECM)
P1618	Engine control module (ECM)
P1625	Voltage to Vehicle Load Control Module Fan Circuit Not detected
P1626	Voltage to Vehicle Load Control Module Circuit Not detected
P1633	Keep Alive Power Voltage Too Low
P1634	Data Output Link Circuit Failure
P1635	Tire / Axle Ratio Out of Acceptable Range
P1636	Inductive Signature Chip Communication Error
P1639	Vehicle ID Block Corrupted or Not Programmed
P1640	Powertrain DTCs Available in Another Module
P1641	Fuel Pump Driver Module Fault Conditions
P1642	Fuel Pump Monitor Circuit High Input
P1643	Fuel Pump Monitor Circuit Low Input
P1644	Fuel Pump Speed Control Circuit Malfunction
P1646	Linear O2 Sensor Control Chip Bank 1
P1647	Linear O2 Sensor Control Chip Bank 2
P1650	Power Steering Pressure Switch Out of Self-Test Range
P1651	Power Steering Pressure Switch Input Malfunction
P1656	CAN Link PCM Circuit Network
P1657	Skip Shift 1 To 4 Upshift System Control Circuit
P1660	Output Circuit Check Signal High
P1661	Output Circuit Check Signal Low
P1662	Injector control module relay -circuit malfunction
P1663	Fuel Demand Command Signal Circuit Malfunction
P1664	Injection Pump Control Module Faulty
P1667	Cylinder identification -circuit malfunction

P1668	Engine control module (ECM)/injector control module - communication error
P1670	Electronic Feedback Signal Not Detected
P1674	Control Module Software Corrupted
P1690	Wastegate Solenoid Circuit Malfunction
P1700	Transmission System Problems
P1701	Reverse Engagement Error Conditions
P1702	Transmission range (TR) sensor -circuit intermittent
P1703	Brake On/Off Switch Out of Self-Test Range
P1704	Transmission System Conditions
P1705	Manual Lever Position Sensor Out of Self-Test Range
P1706	High Vehicle Speed Observed in Park
P1707	Transfer Case Neutral Indicator Hard Fault Present
P1709	Park or Neutral Position Switch Out of Self-Test Range
P1710	No Change In Transmission Fluid Temperature Signal
P1711	Transmission Fluid Temperature Sensor Out of Self-Test Range
P1712	Trans Torque Reduction Request Signal Malfunction
P1713	Transmission System Conditions
P1714	Shift Solenoid 'A' Fault
P1715	Shift Solenoid 'B' Fault
P1716	Transmission System Conditions
P1717	Transmission System Conditions
P1718	Transmission System Conditions
P1719	Steering Sensor High Input
P1720	Vehicle Speed Meter Circuit Malfunction
P1721	Gear 1 Incorrect Ratio
P1722	Gear 2 Incorrect Ratio
P1723	Gear 3 Incorrect Ratio
P1724	Gear 4 Incorrect Ratio
P1725	Insufficient Engine Speed Increase During Self Test

P1726	Insufficient Engine Speed Decrease During Self Test
P1727	Transmission Slip Fault Conditions
P1728	Transmission Slip Error
P1729	4x4 Low Switch Error
P1731	1-2 Shift Malfunction
P1732	Engine Overspeed Malfunction
P1733	Gearshift Load Control Malfunction
P1740	Transmission System Conditions
P1741	Torque Converter Clutch Control Error
P1742	Torque Converter Clutch Solenoid Failed On Conditions
P1743	Torque Converter Clutch Solenoid Failed On Conditions
P1744	Torque Converter Clutch System Stuck in Off Position
P1745	Line Pressure Too High For Too Long
P1746	Electronic Pressure Control Solenoid Low Conditions
P1747	Electronic Pressure Control Solenoid 'A' Short Circuit
P1748	Electronic Pressure Control Malfunction
P1749	Electronic Pressure Control Solenoid Failed Low Conditions
P1751	Shift Solenoid 1 Performance Conditions
P1754	Coast Clutch Solenoid Circuit Malfunction
P1756	Shift Solenoid 2 Performance Conditions
P1760	Transmission System Fault Conditions
P1761	Shift Solenoid 3 Performance Conditions
P1762	Overdrive Band Failed Off
P1766	Shift Solenoid 'D' Performance
P1767	Torque Converter Clutch Solenoid Circuit Malfunction
P1768	Performance / Normal / Winter Mode Input Malfunction
P1770	Overrun Clutch Solenoid Valve Malfunction
P1771	Throttle Position Sensor Open Circuit
P1772	Throttle Position Sensor Short Circuit

P1779	Transmission Control Indicator Lamp Circuit Malfunction
P1780	Transmission Control Switch Circuit is Out of Self-Test Range
P1781	4x4 Low Switch Out of Self-Test Range Conditions
P1782	P/ES Circuit Out Of Self Test Range
P1783	Transmission Over-Temperature Condition
P1784	Transmission System First or Reverse Gear Fault Conditions
P1785	Transmission System First or Second Gear Fault Conditions
P1786	Transmission System Second or Third Gear Fault
P1787	Transmission System Third or Fourth Gear Fault
P1788	3-2 Timing/Coast Clutch Solenoid Circuit Open Conditions
P1789	3-2 Timing/Coast Clutch Solenoid Circuit Shorted Conditions
P1793	Ignition Supply Malfunction
P1795	Idle Switch Circuit Malfunction
P1797	Park/Neutral Position Switch Signal Malfunction
P1804	Transmission 4-Wheel Drive High Indicator Circuit Failure
P1806	Transmission 4-Wheel Drive High Indicator Short Circuit To Battery
P1807	Transmission 4-Wheel Drive High Indicator Short Circuit To Ground
P1808	Transmission 4-Wheel Drive Low Indicator Circuit Failure
P1809	Transmission 4-Wheel Drive Low Indicator Open Circuit
P1810	Transmission Fluid Pressure Valve Position Switch Circuit
P1812	Transmission 4-Wheel Drive Mode Select Circuit Failure
P1815	Transmission 4-Wheel Drive Mode Select Short Circuit To Ground
P1819	Transmission Neutral Safety Switch Short Circuit To Ground
P1820	Transmission Transfer Case Clockwise Shift Relay Coil Circuit Failure

P1822	Transmission Transfer Case Clockwise Shift Relay Coil Short Circuit To Battery
P1824	Transmission 4-Wheel Drive Clutch Relay Circuit Failure
P1826	Transmission 4-Wheel Drive Low Clutch Relay Circuit To Battery
P1827	Transmission 4-Wheel Drive Low Clutch Relay Circuit To Ground
P1828	Transmission Transfer Case Counter Clockwise Shift Relay Coil Circuit Failure
P1829	Transmission Transfer Case Counter Clockwise Shift Relay Coil Open Circuit
P1830	Transmission Transfer Case Counter Clockwise Shift Relay Coil Short Circuit To Battery
P1832	Transmission Transfer Case Differential Lock-Up Solenoid Circuit Failure
P1834	Transmission Transfer Case Differential Lock-Up Solenoid Short Circuit To Battery
P1838	Transmission Transfer Case Shift Motor Circuit Failure
P1839	Transmission Transfer Case Shift Motor Open Circuit
P1840	Transmission Transfer Case Shift Motor Short Circuit To Battery
P1846	Transmission Transfer Case Contact Plate 'A' Circuit Failure
P1848	Transmission Transfer Case Contact Plate 'A' Short Circuit To Battery
P1849	Transmission Transfer Case Contact Plate 'A' Short Circuit To Ground
P1850	Transmission Transfer Case Contact Plate 'B' Circuit Failure
P1854	Transmission Transfer Case Contact Plate 'C' Circuit Failure
P1855	Transmission Transfer Case Contact Plate 'C' Open Circuit
P1856	Transmission Transfer Case Contact Plate 'C' Short Circuit To Battery

P1857	Transmission Transfer Case Contact Plate 'C' Short Circuit To Ground
P1858	Transmission Transfer Case Contact Plate 'D' Circuit Failure
P1859	Transmission Transfer Case Contact Plate 'D' Open Circuit
P1861	Transmission Transfer Case Contact Plate 'D' Short Circuit To Ground
P1862	Transmission Transfer Case Contact Plate Power Circuit Failure
P1863	Transmission Transfer Case Contact Plate Power Open Circuit
P1865	Transmission Transfer Case Contact Plate Power Short To Ground
P1866	Transmission Transfer Case System Concern Servicing Required
P1867	Transmission Transfer Case Contact Plate General Circuit Failure
P1869	Lamp Air Bag Warning Indicator Circuit Open or Short to Ground
P1876	Transmission Transfer Case 2-Wheel Drive Solenoid Circuit Failure
P1877	Transmission Transfer Case 2-Wheel Drive Solenoid Circuit Short To Battery
P1878	Transmission Transfer Case Disengaged Solenoid Circuit Failure
P1881	Engine Coolant Level Switch Circuit Failure
P1882	Engine Coolant Level Switch Circuit Short to Ground
P1883	Engine Coolant Level Switch Circuit Failure
P1884	Engine Coolant Level Lamp Circuit Short to Ground
P1889	Drive Train Axles Bearings Problem
P1891	Transmission Transfer Case Contact Plate Ground Return Open Circuit
P1900	Output Shaft Speed Circuit Intermittent Malfunction

P1901	Turbine Shaft Speed Sensor Circuit Intermittent
P1902	Kickdown Solenoid Relay Control Circuit
P1903	Kickdown Solenoid Circuit Low Voltage
P1904	Kickdown Solenoid Circuit High Voltage
P1908	Transmission Pressure Circuit Solenoid Open or Short to Ground
P1909	Transmission Temperature Sensor Circuit Open or Shorted to Power Or Ground
P1910	Reversing lamps -circuit malfunction
P1919	Engine Coolant Temperature Signal
P1922	Fuel Additive Level Circuit Malfunction
P1924	Fuel Additive Level Circuit Low
P1925	Fuel Additive Level Circuit High
P1926	Fuel Additive Level Circuit Range/Performance
P1927	Fuel Additive Level Too Low/Empty
P1928	Fuel Additive Level Pump Control Circuit/Open
P1929	Fuel Additive Level Pump Control Circuit Performance
P1930	Fuel Additive Level Too Low/Empty
P1931	Fuel Additive Pump Control Circuit/Open
P1932	Fuel Additive Pump Control Circuit Performance
P1933	Fuel Additive Pump Control Circuit Low
P1934	Fuel Additive Pump Control Circuit High
P1935	Fuel Additive Level Low
P1936	Fuel Level Signal
P1937	Vehicle Speed Signal
P1938	Brake Switch/Sensor Signal
P1939	Clutch Switch/Sensor Signal
U2023	Fault received from external node

# GM



Codes	Definition
P1011	Intake Camshaft Position Actuator Park Position Bank 1
P1012	Exhaust Camshaft Position Actuator Park Position Bank 1
P1013	Intake Camshaft Position Actuator Park Position Bank 2
P1014	Exhaust Camshaft Position Actuator Park Position Bank 2
P1031	HO2S Heater Current Monitor Control Circuit Banks 1 and 2 Sensor 1
P1032	HO2S Heater Warm Up Control Circuit Banks 1 and 2 Sensor 1
P1101	Intake airflow -incorrect
P1105	Secondary Vacuum Sensor Circuit
P1106	Manifold Absolute Pressure Sensor Circuit Intermittent High Voltage
P1107	Manifold Absolute Pressure Sensor Circuit Intermittent Low Voltage
P1108	BARO to MAP Sensor Comparison Too High
P1109	Secondary Port Throttle System
P1111	Intake Air Temperature Sensor Circuit Intermittent High Voltage
P1112	Intake Air Temperature Sensor Circuit Intermittent Low Voltage
P1113	Intake Resonance Switchover Solenoid Control Circuit
P1114	Engine Coolant Temperature Sensor Circuit Intermittent Low Voltage
P1115	Engine Coolant Temperature Sensor Circuit Intermittent High Voltage
P1116	Engine Coolant Temperature Sensor Signal Unstable Or Intermittent
P1117	Engine Coolant Temperature Signal Out-Of-Range Low
P1118	Engine Coolant Temp. Signal Out-Of-Range High
P1119	Engine Coolant Temperature Signal Out Of Rage
P1120	Throttle Position Sensor 1 Circuit

P1121	Throttle Position Sensor Circuit Intermittent High Voltage
P1122	Throttle Position Sensor Circuit Intermittent Low Voltage
P1125	Accelerator Pedal Position Sensor Fault
P1130	HO2S Circuit Low Variance Bank 1 Sensor 1
P1131	HO2S Circuit Low Variance Bank 1 Sensor 2
P1132	HO2S Circuit Low Variance Bank 2 Sensor 1
P1133	HO2S Insufficient Switching Bank 1 Sensor 1
P1134	HO2S Transition Time Ratio Bank 1 Sensor 1
P1135	HO2S Lean Mean Bank 1 Sensor 1
P1136	HO2S Rich Mean Bank 1 Sensor 1
P1137	HO2S Bank 1 Sensor 2 Lean System or Low Voltage
P1138	HO2S Bank 1 Sensor 2 Rich or High Voltage
P1139	HO2S Insufficient Switching Bank 1 Sensor 2
P1140	HO2S Transition Time Ratio Bank 1 Sensor 2
P1141	HO2S Heater Control Circuit Bank 1 Sensor 2
P1143	HO2S Bank 1 Sensor 3 Lean System or Low Voltage
P1144	HO2S Bank 1 Sensor 3 Rich or High Voltage
P1145	HO2S Cross Counts Bank 1 Sensor 3
P1153	HO2S Insufficient Switching Bank 2 Sensor 1
P1154	HO2S Transition Time Ratio Bank 2 Sensor 1
P1155	HO2S Lean Average Bank 2 Sensor 1
P1156	HO2S Rich Mean Bank 2 Sensor 1
P1157	HO2S Bank 2 Sensor 2 Lean System Or Low Voltage
P1158	HO2S Bank 2 Sensor 2 Rich Or High Voltage
P1159	HO2S Cross Counts Bank 2 Sensor 2
P1161	HO2S Heater Control Circuit Bank 2 Sensor 2
P1163	HO2S Bank 2 Sensor 3 Lean System Or Low Voltage
P1164	HO2S Bank 2 Sensor 3 Rich Or High Voltage
P1165	HO2S Cross Counts Bank 2 Sensor 3
P1170	Bank To Bank Fuel TrimOffset

P1171	Fuel System Lean During Acceleration
P1172	Fuel Pump Insufficient Flow
P1174	Fuel Trim Cylinder Balance Bank 1
P1175	Fuel Trim Cylinder Balance Bank 2
P1183	Cruise Control Direction Circuit High Input Conditions
P1185	Engine Oil Temperature Sensor Circuit
P1186	Engine Oil Temperature Sensor Circuit Performance
P1187	Engine Oil Temperature Sensor Circuit Low Voltage
P1188	Engine Oil Temperature Sensor Circuit High Voltage
P1189	Engine Oil Pressure Switch Fault
P1190	Engine Vacuum Leak
P1191	Intake Air Duct Air Leak
P1200	Fuel Injector Circuit
P1201	Gas Mass Sensor Circuit Range/Performance
P1202	Gas Mass Sensor Circuit Low Frequency
P1203	Gas Mass Sensor Circuit High Frequency
P1211	Mass Air Flow Circuit Intermittent High
P1212	Mass Air Flow Circuit Intermittent Low
P1214	Injection Pump Timing Offset
P1215	Generator Driver Circuit Conditions
P1216	Fuel Solenoid Response Time Too Short Conditions
P1217	Fuel Solenoid Response Time Too Long
P1218	Injection Pump Calibration Circuit
P1219	Throttle Position Sensor Reference Voltage
P1220	Throttle motor position sensor 1 -circuit malfunction
P1221	Throttle motor position sensor 2 -circuit malfunction
P1222	Fuel pump, run signal – circuit malfunction
P1223	Injector 1 Output Circuit
P1225	Injector Circuit Cylinder 2 Intermittent
P1228	Injector Circuit Cylinder 3 Intermittent

P1229	Injector 3 Output Circuit
P1231	Injector Circuit Cylinder 4 Intermittent
P1232	Injector 4 Output Circuit
P1234	Injector Circuit Cylinder 5 Intermittent
P1235	Injector 5 Output Circuit
P1237	Injector Circuit Cylinder 6 Intermittent
P1238	Injector 6 Output Circuit
P1240	Injector Circuit Cylinder 7 Intermittent
P1241	Injector 7 Output Circuit
P1243	Injector Circuit Cylinder 8 Intermittent
P1244	Injector 8 Output Circuit
P1245	Intake Plenum Switchover Valve
P1248	Injector 1 Positive Voltage Control Circuit Shorted to Control Circuit
P1249	Injector 2 Positive Voltage Control Circuit Shorted to Control Circuit
P1250	Early Fuel Evaporation Heater Circuit
P1255	Fuel pump control module -driver over-temperature
P1257	Supercharger System Overboost
P1258	Engine Coolant Overtemperature Protection Mode Active
P1260	Fuel Pump Speed Relay Control Circuit Conditions
P1270	Accelerator Pedal Position Sensor A/D Converter Error
P1271	Accelerator Pedal Position Sensor 1-2 Correlation
P1272	Accelerator Pedal Position Sensor 2-3 Correlation
P1273	Accelerator Pedal Position Sensor 1-3 Correlation
P1274	Injectors Wired Incorrectly
P1275	Accelerator Pedal Position Sensor 1 Circuit
P1276	Accelerator Pedal Position Sensor 1 Performance
P1277	Accelerator Pedal Position Sensor 1 Circuit Low Voltage
P1278	Accelerator Pedal Position Sensor 1 Circuit High Voltage
P1280	Accelerator Pedal Position Sensor 2 Circuit

P1281	Accelerator Pedal Position Sensor 2 Circuit Performance
P1282	Accelerator Pedal Position Sensor 2 Circuit Low Voltage
P1283	Accelerator Pedal Position Sensor 2 Circuit High Voltage
P1285	Accelerator Pedal Position Sensor 3 Circuit
P1286	Accelerator Pedal Position Sensor 3 Circuit Performance
P1287	Accelerator Pedal Position Sensor 3 Circuit Low Voltage
P1288	Accelerator Pedal Position Sensor 3 Circuit High Voltage
P1300	Ignition Coil 1 Primary Feedback Circuit
P1305	Ignition Coil 2 Primary Feedback Circuit
P1310	Ignition Coil 3 Primary Feedback Circuit
P1315	Ignition Coil 4 Primary Feedback Circuit
P1320	IC Module 4X Reference Circuit Intermittent No Pulses
P1321	Electronic Ignition System Fault Line
P1322	EI System or Ignition Control Extra or Missing
P1323	IC 24X Reference Circuit Low Frequency
P1324	Crank RPM Too Low
P1335	Crankshaft Position Circuit
P1336	Crankshaft Position System Variation Not Learned
P1345	Crankshaft Position-Camshaft Position Correlation
P1346	Intake Camshaft Position Sensor System Performance
P1349	Intake Camshaft Position System Conditions
P1350	Ignition Control System
P1351	Ignition Control Module Circuit High Voltage
P1352	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 2
P1353	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 3
P1354	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 4
P1355	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 5

P1356	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 6
P1357	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 7
P1358	Ignition Control Module Output High/Pulse Detected When Grounded Cylinder 8
P1359	Ignition Coil Group 1 Control Circuit Conditions
P1360	Ignition Coil Group 2 Control Circuit Conditions
P1361	Ignition Control Not Toggling After Enable Conditions
P1362	ICM Bypass Circuit Low Input Conditions
P1363	Ignition Control Cylinder 3 Not Toggling After Enable
P1364	Ignition Control Cylinder 4 Not Toggling After Enable
P1365	Ignition Control Cylinder 5 Not Toggling After Enable
P1366	Ignition Control Cylinder 6 Not Toggling After Enable
P1367	Ignition Control Cylinder 7 Not Toggling After Enable
P1368	Ignition Control Cylinder 8 Not Toggling After Enable
P1370	Ignition Control Module 4X Reference Circuit Too Many Pulses
P1370	IC Module 4X Reference Circuit Too Many Pulses Conditions
P1371	Missing Low Resolution Signal
P1372	Crankshaft Position Sensor A-B Correlation Conditions
P1374	IC Module 3X Reference Circuit Conditions
P1375	1C Module 24X Reference Circuit High Input Conditions
P1376	IC Module Ignition Ground Circuit
P1377	ICM CMP Pulse To 4X Reference Pulse Comparison
P1380	EBTCM DTC Detected, Rough Road Data Unusable
P1381	Engine Misfire Detected, No EBCM/PCM Serial Data
P1390	Wheel Speed Sensor 1 G-Sensor Circuit
P1391	Wheel Speed Sensor 1 G-Sensor Circuit Performance
P1392	Wheel Speed Sensor 1 G-Sensor Circuit Low Voltage

P1393	Wheel Speed Sensor 1 G-Sensor Circuit High Voltage
P1394	Wheel Speed Sensor 1 G-Sensor Circuit Intermittent
P1395	Wheel Speed Sensor 2 G-Sensor Circuit
P1396	Wheel Speed Sensor Circuit
P1397	Wheel Speed Sensor 2 G-Sensor Circuit Low Voltage
P1398	Wheel Speed Sensor 2 G-Sensor Circuit High Voltage
P1399	Wheel Speed Sensor 2 G-Sensor Circuit Intermittent
P1400	Cold start emission control -malfunction
P1401	Exhaust Gas Recirculation Flow Test Conditions
P1403	Exhaust Gas Recirculation Error (EGR Solenoid 1) Conditions
P1404	EGR Valve Closed Position Performance Conditions
P1405	Exhaust Gas Recirculation Error (EGR Solenoid 3) Conditions
P1406	Exhaust gas recirculation (EGR) valve position sensor range performance
P1407	EGR Air Intrusion in Exhaust Supply to EGR Valve
P1408	Intake Manifold Pressure Sensor Circuit
P1409	EGR Vacuum System Leak
P1410	Fuel Tank Pressure Control Solenoid Circuit Conditions
P1415	Secondary Air Injection System Bank 1
P1416	Secondary Air Injection System Bank 2
P1418	Secondary Air Injection System Relay 'A' Control Circuit High
P1420	Intake Air Low Pressure Switch Circuit Low Voltage
P1421	Intake Air Low Pressure Switch Circuit High Voltage
P1423	Intake Air High Pressure Switch Circuit High Voltage
P1431	Fuel Level Sensor 2 Performance Conditions
P1432	Fuel Level Sensor 2 Circuit Low Input Conditions
P1433	Fuel Level Sensor 2 Circuit High Input Conditions
P1441	EVAP Control System Flow During Non-Purge Conditions

P1442	EVAP Purge Solenoid Switch Static Test Conditions
P1450	Barometric Pressure Sensor Circuit Conditions
P1451	Barometric Pressure Sensor Performance Conditions
P1460	Cooling Fan Control System Fault Conditions
P1480	Cooling Fan 1 Control Circuit High
P1481	Cooling Fan Speed Signal Lost
P1482	Cooling Fan Circuit Condition
P1483	Engine Cooling System Performance Conditions
P1484	Cooling Fan RPM Signal Malfunction
P1500	Starter Signal Circuit
P1501	Theft Deterrent System Fault Conditions
P1502	Theft Deterrent System Signal Not Received Conditions
P1503	Theft Deterrent System Password Incorrect
P1504	Vehicle Speed Output Circuit
P1508	Idle Speed Low Idle Air Control System Not Responding
P1509	Idle Speed High Idle Air Control System Not Responding
P1510	Throttle Control System - Throttle Limitation Active
P1511	Throttle Control System - Backup System Performance
P1512	Throttle command/actual throttle position -signals out of range
P1514	Throttle Actuator Control System Mass Air Flow Performance
P1515	Control Module Throttle Actuator Position Performance
P1516	TAC Module Throttle Actuator Position Performance
P1517	Throttle Actuator Control Module Performance
P1518	Throttle control module/engine control module (ECM) - communication malfunction
P1519	Throttle Actuator Control Module Internal Circuit Conditions
P1520	Park Neutral Position Switch Circuit Conditions
P1521	Transmission Engaged at High Throttle Angle

P1522	Park/Neutral to Drive/Reverse at High RPM
P1523	Throttle Closed Position Performance
P1524	TP Sensor Learned Closed Throttle Degrees Out-Of-Range
P1525	Throttle Body Service Required
P1526	Minimum Throttle Position Not Learned Conditions
P1527	Throttle Position Sensor Learned Closed Throttle Degrees Out Of-Range
P1528	Governor
P1529	Heated Windshield Request Problem
P1530	Ignition Timing Adjustment Switch Circuit Conditions
P1531	Low Air Conditioning Refrigerant Charge Conditions
P1532	A/C Evaporative Temp Sensor Circuit Low Input Conditions
P1533	A/C Evaporative Temp Sensor Circuit High Input Conditions
P1534	A/C High Side Temperature Sensor Low Voltage
P1535	A/C High Side Temperature Sensor Circuit Conditions
P1536	A/C System, ECT Sensor Over-Temperature Conditions
P1537	Air Conditioning Request Circuit Voltage Low Conditions
P1538	Air Conditioning Request Circuit Voltage High Conditions
P1539	Air Conditioning Clutch Status High Input Conditions
P1540	A/C System, High Pressure Conditions
P1541	A/C High Side Over Temperature
P1542	A/C System, High Pressure/High Temperature Conditions
P1543	Air Conditioning System Performance Conditions
P1544	A/C Refrigerant Condition Very Low
P1545	Air Conditioning Clutch Relay Control Circuit Conditions
P1546	A/C Clutch Status Circuit Low Input Conditions
P1547	A/C System Performance Degraded
P1548	A/C Recirculation Circuit
P1550	Stepper Motor Cruise Control Fault
P1554	Cruise Control Status Circuit

P1555	Electronic Variable Orifice Fault Conditions
P1558	Cruise Control System, SPS Circuit Indicated Low
P1559	Cruise Control Power Management Mode
P1560	Transaxle Not In Drive - Cruise Control Disabled Conditions
P1561	Cruise Vent Solenoid Circuit
P1562	Cruise Vacuum Solenoid Circuit
P1563	Cruise Vehicle Speed/Set Speed Difference Too High
P1564	Vehicle Acceleration Too High - Cruise Control Disabled
P1565	Cruise Servo Position Sensor Fault
P1566	Engine RPM Too High - Cruise Control Disabled Conditions
P1567	Cruise Control System Active Braking Control Active
P1568	Cruise Servo Stroke Greater Than Commanded In Cruise
P1569	Cruise Servo Stroke High While Not In Cruise
P1570	Traction Control Active - Cruise Control Disabled Conditions
P1571	Traction Control Desired Torque Out-Of-Range
P1572	Traction Control System - Circuit Low Too Long Conditions
P1573	TCS, Loss Of ABS/TCS Serial Data
P1574	Stop Lamp Switch Circuit
P1575	Extended Travel Brake Switch Circuit Conditions
P1576	Brake Booster Vacuum Sensor Circuit High Input Conditions
P1577	Brake Booster Vacuum Sensor Circuit Low Input
P1578	Brake Booster Vacuum Sensor Circuit Low Vacuum
P1579	P/N To D/R At High Throttle Angle - Power Reduction Mode On
P1580	Cruise Control Module Move Circuit Low Input Conditions
P1581	Cruise Control Module Move Circuit High Input Conditions
P1582	Cruise Control Module Direction Low Input Conditions
P1583	Cruise Control Direction Circuit High Input Conditions
P1584	Cruise Control Disabled Conditions

P1585	Cruise Control Inhibit Output Circuit Conditions
P1586	Cruise Control Brake Switch 2 Circuit Conditions
P1587	Cruise Control Clutch Control Circuit Low
P1588	Cruise Control Clutch Control Circuit High
P1599	Cruise Power Management Mode Enabled
P1600	Engine control module (ECM) -malfunction
P1601	CAN data bus, engine control module (ECM)/ anti lock brake system (ABS)/ traction control system (TCS)/ instrumentation control module/ diagnostic control module some communication lost
P1602	Engine control module (ECM) to antilock brake system (ABS)/ traction control system (TCS), CAN data bus - communication failure
P1603	Loss Of Sensing Diagnostic Mode Data Conditions
P1604	Loss Of IPC Serial Data Conditions
P1605	Loss Of HVAC Serial Data Conditions
P1606	Serial Communication Problem With Device 6
P1607	Serial Communication Problem With Device 7
P1608	Serial Communication Problem With Device 8
P1609	Loss Of TCS Serial Data
P1610	Loss of Platform Zone Module (PZM) Serial Data Conditions
P1611	Loss of CVRTD Serial Data Conditions
P1612	Loss Of IPM Serial Data
P1613	Loss Of DIM Serial Data
P1614	Loss Of RIM Serial Data
P1615	Loss Of VTD Serial Data
P1617	Engine Oil Level Switch Circuit Conditions
P1619	Engine Oil Reset Monitor Circuit Conditions
P1620	Low Engine Coolant Circuit Conditions

P1621	Control Module Long Term Memory Performance Conditions
P1622	Cylinder Select
P1623	TFT Sensor Pullup Resistor Circuit Conditions
P1624	Customer Snapshot - Data Available Conditions
P1625	PCM Flash Checksum (TCM) Conditions
P1626	Pass Key® II Fuel Enable Circuit Conditions
P1627	EC-PCM Analog To Digital Converter Conditions
P1628	PCM Engine Control Temp Pullup Resistor Conditions
P1629	Theft Deterrent Fuel Enable Signal Not Received Conditions
P1630	Engine control module (ECM), immobilizer code -learning mode
P1631	Theft Deterrent System - Start Enable Signal Not Current
P1632	Theft Deterrent System, Fuel Disabled
P1633	Ignition Supplement Power (0) Switch Circuit Conditions
P1634	Ignition 1 Power Circuit Low Input Conditions
P1635	5-Volt Reference Circuit Low Conditions
P1636	PCM Stack Overrun
P1637	Alternator warning lamp, control signal -circuit malfunction
P1638	Generator 'F' Terminal Circuit Conditions
P1639	TCM Analog To Digital Converter Conditions
P1640	Output Driver Module 'A' Error Conditions
P1641	MIL Control Circuit Conditions
P1642	Fan Control Relay 2 and 3 Control Circuit
P1643	Wait To Start Lamp Control Circuit Conditions
P1644	Traction Control Delivered Torque Output Circuit Conditions
P1645	EVAP Solenoid Output Circuit Conditions
P1646	EVAP Vent Solenoid Output Circuit

P1647	Driver 1 Line 7
P1648	Anti-Theft Device Wrong Security Code
P1650	Output Driver Module 2 Input High Input Conditions
P1651	Cooling Fan 1 Control Relay Circuit Conditions
P1652	Cooling Fan 2 Relay Control Circuit Conditions
P1653	Traction control system (TCS), delivered torque signal – malfunction
P1654	A/C Relay Control Circuit Conditions
P1655	EVAP Purge Solenoid Control Circuit Conditions
P1656	Intake Camshaft Position Solenoid Circuit Conditions
P1657	Skip Shift 1 To 4 Upshift System Control Circuit
P1658	Starter Enable Relay Control Circuit
P1660	Engine control module (ECM), quad driver/output driver – circuit malfunction
P1661	MIL Control Circuit Conditions
P1662	Cruise Control Inhibit Control Circuit Conditions
P1663	Change Oil Lamp Control Circuit Conditions
P1664	Skip Shift 1-4 Upshift Lamp Control Circuit
P1665	EVAP Vent Solenoid Control Circuit Conditions
P1666	Driver 3 Line 6
P1667	Reverse Inhibit Solenoid Control Circuit Conditions
P1668	Alternator 'I' terminal -circuit malfunction
P1669	ABS Unit Expected
P1670	Quad Driver Module 'C' Fault Detected Conditions
P1671	Quad Driver Module 'C' Fault Detected Conditions
P1672	Low Engine Oil Level Lamp Control Circuit
P1673	Engine coolant 'hot' warning lamp, control signal -circuit malfunction
P1674	Tachometer Control Circuit
P1675	EVAP Vent Solenoid Control Circuit
P1676	EVAP Canister Purge Solenoid Control Circuit

P1677	Immobilizer Function Deactivated
P1678	Immobilizer Powertrain Identification Failed
P1679	Immobilizer Environment Identification Failed
P1680	Control Module Not Programmed
P1681	Control Module Not Programmed
P1682	Ignition 1 Switch Circuit 2
P1683	Driver 5 Line 3
P1684	Transmission Control Module Power Up Temperature Sensor Performance
P1685	Transmission Control Module Power Up Temperature Sensor Circuit Low Voltage
P1686	Transmission Control Module Power Up Temperature Sensor Circuit High Voltage
P1687	Driver 5 Line 7
P1688	Engine control module (ECM), torque reduction signal -out of range
P1689	Traction Control Delivered Torque Output Circuit Conditions
P1690	Engine Control Module Loop Overrun
P1691	Coolant Gauge Circuit Conditions
P1692	Coolant Gauge Circuit High Voltage
P1693	Tachometer Circuit Conditions
P1694	Tachometer Circuit High Voltage
P1695	Remote Keyless Entry Circuit Low Input Conditions
P1696	Remote Keyless Entry Circuit High Input Conditions
P16F3	Engine control module -redundant memoryperformance
P1700	TCM Requested Malfunction Indicator Lamp Conditions
P1701	Transmission MIL Request Circuit
P1701	MIL Request Circuit (4L30-E Transmission) Conditions
P1705	Park Neutral Output Circuit (4L30-E Transmission) Conditions

P1713	Transmission Fluid Pressure Sensor/Switch
P1740	Torque Control Circuit (4L30-E Transmission) Conditions
P1743	Throttle Position Invalid Signal (4L30-E Transmission)
P1760	TCM Supply Voltage Interrupted (4L30-E Transmission)
P1779	Engine Torque Delivered To TCM Signal
P1780	Park Neutral Position Switch Circuit (MS74-Speed Transaxle)
P1781	Transmission control module (TCM), MIL request signal - voltage high/low
P1790	Transmission Control Module Checksum
P1791	Transmission Control Module Loop
P1792	ECM to TCM Engine Coolant Signal (4L30-E Transmission)
P1793	Transmission Control Module Stack Overrun
P1795	Throttle Body Position
P1800	ECM to TCM Engine Coolant Signal (4L30-E Transmission)
P1801	Performance Selector Switch Failure
P1804	Ground Control Relay
P1810	Transmission Pressure Switch Manifold Fault Conditions
P1811	Maximum Adaptive & Long Term Shift (4T80-E Transmission)
P1812	Transmission Fluid Overtemperature (4T60-E Transmission)
P1813	Torque Control Solenoid Malfunction
P1814	Torque Converter Overstressed (4T80-E Transmission)
P1815	A/T Range Sensor Circuit Malfunction
P1816	Transmission Fluid Pressure Valve Position Switch-Park/Neutral With Drive Ratio
P1818	Transmission Fluid Pressure Valve Position Switch-Drive Without Drive Ratio
P1819	Internal Mode Switch - No Start (4T65 - E Transmission)
P1820	Internal Mode Switch Circuit 'A' Low (4T80-E Transmission)

P1822	Internal Mode Switch Circuit 'B' Low (4T80-E Transmission)
P1823	Internal Mode Switch Circuit 'P' Low (4T80-E Transmission)
P1824	Internal Mode Switch 'P' Circuit High Voltage
P1825	Transmission range (TR) switch, signals 'A/B/C & P' – incorrect signal
P1826	Transmission range (TR) switch, signals 'C' – voltage high
P1831	PC Solenoid Power Circuit Low Voltage
P1833	A/T Solenoids Power Circuit Low Voltage
P1835	Kick down Switch Circuit (4L30-E Transmission) Conditions
P1836	Kick-Down Switch Failed Open
P1837	Kick-Down Switch Failed Short
P1838	Internal Mode Switch 'A' Circuit High Voltage
P1839	Internal Mode Switch 'C' Circuit Low Voltage
P1840	Internal Mode Switch 'S' Circuit Low Voltage
P1841	Internal Mode Switch 'S' Circuit High Voltage
P1842	1-2 Shift Solenoid Circuit Low Input (4T80-E Transmission)
P1843	1-2 Shift Solenoid Circuit High Input (4T80-E Transmission)
P1844	Transmission Fluid Pressure Sensor/Switch 'A' Circuit Intermittent
P1845	2-3 Shift Solenoid Circuit Low Input (4T80-E Transmission)
P1847	2-3 Shift Solenoid Circuit High Input (4T80-E Transmission)
P1850	Brake Band Apply Solenoid (4L30-E Transmission) Conditions
P1851	Brake Band Apply Solenoid Performance
P1852	Brake Band Apply Solenoid Low Input Voltage
P1853	Brake Band Apply Solenoid High Input Voltage
P1860	TCC PWM Solenoid Electrical Fault
P1864	TCC Enable Solenoid Electrical Fault Conditions
P1868	Transmission Fluid Life (4T80-E Transmission) Conditions
P1870	Transaxle Component Slipping

P1873	Torque Converter Clutch Stator Temperature Switch Circuit Low
P1874	Torque Converter Clutch Stator Temperature Switch Circuit High
P1875	4WD Low Switch Circuit Electrical (4L60-E Transmission)
P1884	TCC Enable/Shift Light Circuit
P1886	Transaxle Shift, Timing Solenoid Performance
P1887	TCC Release Switch Circuit Conditions
P1890	Throttle Position Signal Input (4L30-E Transmission)
P1891	Throttle Position Sensor PWM Signal Low
P1892	Throttle Position Sensor PWM Signal High
P1893	Engine Torque Signal Low Voltage
P1894	Engine Torque Signal High Voltage
P1895	Engine Torque Delivered Circuit (4L30-E Transmission)
P1915	Internal Mode Switch Start/Wrong Range

# GMC



Codes	Definition
P1101	Intake airflow -incorrect
P1106	Manifold absolute pressure (MAP) sensor voltage high, intermittent
P1107	Manifold absolute pressure (MAP) sensor voltage low, intermittent
P1111	Intake air temperature (IAT) sensor -voltage high,intermittent
P1112	Intake air temperature (IAT) sensor -voltage low,intermittent
P1114	Engine coolant temperature (ECT) sensor voltage low, intermittent
P1115	Engine coolant temperature (ECT) sensor voltage high, intermittent
P1120	Throttle motor position sensor 1 -circuit malfunction
P1121	Throttle position (TP) sensor -voltage high, intermittent
P1122	Throttle position (TP) sensor -voltage low,intermittent
P1125	Accelerator pedal position (APP) sensor 1/2/3 -signal variation
P1133	Oxygen sensor (O2S)/heated oxygen sensor(H02S) 1, bank 1 -insufficient switching
P1134	Heated oxygen sensor (H02S) 1, bank 1 slow response
P1137	Heated oxygen sensor (H02S) 2, bank 1 voltagelow
P1138	Heated oxygen sensor (H02S) 2, bank 1 voltage high
P1153	Heated oxygen sensor (H02S) 1, bank 2insufficient switching
P1154	Heated oxygen sensor (H02S) 1, bank 2 slow response
P1171	Fuel system -lean during acceleration
P1172	Fuel level sensors, primary & secondary sensor no fuel level change during fuel transfer from secondary to primary tank

P1174	Heated oxygen sensor (HO2S) 1, bank 1 mixture variation between cylinders
P1175	Heated oxygen sensor (HO2S) 1, bank 2 mixture variation between cylinders
P1191	Intake manifold system -air leak
P1214	Fuel injection pump timing -out of range
P1216	Fuel injection duration -pulse width signal shorter than expected
P1217	Fuel injection duration -pulse width signal longerthan expected
P1218	Fuel injection pump calibration resistor-circuit malfunction
P1220	Throttle motor position sensor 1 -circuit malfunction
P1221	Fuel pump, run signal -circuit malfunction Throttle motor position sensor 2 -circuit malfunction
P1222	Fuel pump, run signal:"" circuit malfunction
P1223	Injector 1 -circuit malfunction
P1224	Injector 1 -circuit malfunction
P1226	Injector 2 -circuit malfunction
P1227	Injector 2 -circuit malfunction
P1229	Injector 3 -circuit malfunction
P122A	Injector 3 -circuit malfunction
P1232	Injector 4 -circuit malfunction
P1233	Injector 4 -circuit malfunction
P1235	Injector 5 -circuit malfunction
P1236	Injector 5 -circuit malfunction
P1238	Injector 6 -circuit malfunction
P1239	Injector 6 -circuit malfunction
P1241	Injector 7 -circuit malfunction
P1242	Injector 7 -circuit malfunction
P1244	Injector 8 -circuit malfunction

P1247	Injector 8 -circuit malfunction
P1255	Fuel pump control module -driver over-temperature
P1258	Engine overheating
P1261	Injectors 1, 4, 6 & 7 -high voltage
P1262	Injectors 2, 3, 5 & 8 -high voltage
P1270	Engine control module (ECM). APP sensor signal - analogue/digital process malfunction
P1271	Accelerator pedal position (APP) sensor 1/2 signal variation
P1272	Accelerator pedal position (APP) sensor 2/3signal variation
P1273	Accelerator pedal position (APP) sensor 1/3signal variation
P1275	Accelerator pedal position (APP) sensor 1 circuitmalfunction
P1276	Accelerator pedal position (APP) sensor 1 range performance
P1277	Accelerator pedal position (APP) sensor 1voltage low
P1278	Accelerator pedal position (APP) sensor 1 voltage high
P1280	Accelerator pedal pOSition (APP) sensor 2 circuit malfunction
P1281	Accelerator pedal position (APP) sensor 2 range performance
P1282	Accelerator pedal position (APP) sensor 2 voltage low
P1283	Accelerator pedal position (APP) sensor 2 voltage high
P1285	Accelerator pedal position (APP) sensor 3 circuit malfunction
P1286	Accelerator pedal position (APP) sensor 3 range performance
P1287	Accelerator pedal position (APP) sensor 3 voltage low
P1288	Accelerator pedal position (APP) sensor 3 voltage high
P1293	Injector control module -circuit malfunction bank 1
P1294	Injector control module -circuit malfunction bank 2
P1295	Injector control module -circuit malfunction bank 1

P1296	Injector control module -circuit malfunction bank 2
P1336	Crankshaft position (CKP) sensor -variation not learned
P1345	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor -signal variation
P1351	Ignition control system, coil -voltage high
P1361	Ignition control system, IC circuit -voltage low
P1380	Antilock brake system (ABS)/traction control system (TCS), rough road signal to ECM -malfunction
P1381	Antilock brake system (ABS)/traction control system (TCS), rough road signal to ECM - no communication
P1400	Cold start emission control -malfunction
P1404	Exhaust gas recirculation (EGR) valve -not fully closing
P1406	Exhaust gas recirculation (EGR) valve position sensor range performance
P1409	Exhaust gas recirculation (EGR) system malfunction
P1415	Secondary air injection (AIR) system, bank 1
P1416	Secondary air injection (AIR) system, bank 2
P1431	Fuel level sensor, secondary -circuit malfunction
P1432	Fuel level sensor -low voltage
P1433	Fuel level sensor -high voltage
P1441	Evaporative emission (EVAP) system -leak detected
P1442	Evaporative emission (EVAP) system vacuum switch -circuit malfunction
P1481	Engine coolant fan speed sensor -signal loss
P1482	Engine coolant fan clutch solenoid -circuit malfunction
P1484	Engine coolant fan speed/engine speed -signal variation
P1504	Engine control module (ECM), vehicle speed sensor (VSS) output signal -circuit malfunction
P1508	Idle air control (IAC) valve -low rpm
P1509	Idle air control (IAC) valve -high rpm

P1512	Throttle command/actual throttle position -signals out of range
P1514	Throttle control unit, intake air flow -excessive
P1515	Throttle command/actual throttle position -signal variation
P1516	Throttle command/actual throttle position -signal variation
P1517	Throttle control module -malfunction
P1518	Throttle control module/engine control module (ECM) - communication malfunction
P1520	Park/neutral position (PNP) switch -circuit malfunction
P1523	Throttle control unit, throttle position during battery saving mode
P154A	Intake air heater -feedback circuit
P154B	Intake air heater -voltage signal circuit
P154C	Intake air heater -current signal circuit
P154D	Intake air heater -temperature signal circuit
P1550	System voltage low
P1571	Traction control system (TCS), torque request signal - malfunction
P1574	Brake pedal position (BPP) switch, voltage high
P1600	Engine control module (ECM) -malfunction
P1601	CAN data bus, engine control module (ECM)/ anti lock brake system (ABS)/ traction control system (TCS)/instrumentation control module/ diagnostic control module some communication lost
P1602	Engine control module (ECM) to antilock brake system (ABS)/ traction control system (TCS), CAN data bus - communication failure
P1621	Engine control module (ECM) -memory performance
P1626	Engine control module (ECM) -fuel enable signal lost
P1627	Engine control module (ECM) -malfunction

P1630	Engine control module (ECM), immobilizer code -learning mode
P1631	Engine control module (ECM) -incorrect immobilizer code System voltage low Engine control module (ECM) -fuel disable signal received
P1633	Engine control module (ECM ), ignition supply voltage
P1634	Engine control module (ECM) -ignition supply voltage - voltage low
P1635	Engine control module (ECM), sensor supply voltage - circuit malfunction
P1637	Alternator warning lamp, control signal -circuit malfunction
P1638	Alternator 'F' terminal -circu it malfunction
P1639	Engine control module (ECM), sensor supply voltage - circuit malfunction
P1641	Malfunction indicator lamp (MIL) -circuitmalfunction
P1643	Glow plug waming lamp -circuit malfunction
P1644	Traction control system (TCS), delivered torque signal - malfunction
P1653	Exhaust gas recirculation (EGR) vent valve circuit malfunction
P1654	Service throttle soon warning lamp -circuit malfunction
P1655	Exhaust gas recirculation (EGR) control valve -circuit malfunction
P1656	Turbocharger (TC) wastegate regulating valve -circuit malfunction
P1658	Fuel injector control module (FICM) malfunction
P1665	Fuel level sensor -signal malfunction
P1668	Alternator 'l' terminal -circuit malfunction
P1680	Engine control module (ECM) -malfunction
P1681	Engine control module (ECM) -malfunction

P1682	Engine control module (ECM) -ignition powersupply less than 10 V
P1683	Engine control module (ECM) -malfunction
P1687	Fuel injector control module (FICM) -stuck on
P1688	Engine control module (ECM), torque reduction signal -out of range
P1689	Traction control system (TCS), delivered torquesignal - malfunction
P16F3	Engine control module -redundant memoryperformance
P1779	Engine control module (ECM), torque reduction signal -out of range
P1781	Transmission control module (TCM), MIL requestsignal - voltage high/low
P1810	Transmission gear pressure switch, signal -circuit malfunction
P1811	Shift time too long -adaptation limit reached
P1812	Transmission fluid temperature (TFT) high
P1815	Transmission fluid pressure (TFP) switch -invalid gear selection
P1816	Transmission fluid pressure (TFP) switch -invalid gear selection
P1860	Torque converter clutch (TCC) solenoid, pulsedwidth modulation (PWM) -circuit malfunction
P1864	Torque converter clutch (TCC) solenoid -circuit malfunction
P1870	Torque converter clutch (TCC) -slip speed excessive
P1875	Transmission, 4WD low selection signal -circuit malfunction
P1886	Transmission 3rd-2nd control solenoid -circuitmalfunction
P3400	Cylinder cut-out system -malfunction
P3401	Cylinder cut-out solenoid, cylinder 1 malfunction
P3425	Cylinder cut-out solenoid , cylinder 4 malfunction

P3441	Cylinder cut-out solenoid, cylinder 6 malfunction
P3449	Cylinder cut-out solenoid, cylinder 7 malfunction
U1026	Transmission control module (TCM)/four wheeldrive control module, CAN data bus - communication malfunction
U1041	Antilock brake system (ABS)/traction controlsystem (TCS), CAN data bus -communicationmalfunction
U1064	Body control module (BCM)/immobilizer controlmodule, CAN data bus -communication malfunction
U1192	Engine control module (ECM)immobilizer control module, CAN data bus -signal malfunction
U1193	Engine control module (ECM)immobilizer control module, CAN data bus -signal malfunction
U1800	Engine control module (ECM)/fuel injector control module (FICM), CAN data bus - communication malfunction
U2104	Engine control module (ECM)/transmission control module (TCM)/Fuel injector control module (FICM), CAN data bus communication malfunction

# HONDA



Codes	Definition
P1009	Camshaft position (CMP), intake/letufront, bank 1 – circuit malfunction/timing over-advanced/system performance
P1020	Valve position control circuit – valve stuck off
P1021	Valve position control circuit – valve stuck on
P1024	Valve position control circuit – valve sticking on
P1025	Valve position control circuit -valve sticking off
P1026	Valve position control circuit – valve stuck on
P1077	Intake manifold air control valve – stuck in high RPM position
P1078	Intake manifold air control valve – stuck in low RPM position
P1103	Mass Airflow Sensor Higher Than Expected
P1106	Barometric pressure (BARO) sensor- range/performance problem
P1107	Barometric pressure (BARO) sensor- circuit/voltage low
P1108	Barometric pressure (BARO) sensor- circuit/voltage high
P1109	Barometric pressure (BARO) sensor – circuit malfunction, out of range
P1111	Intake air temperature (IAT) sensor - circuit/ intermittent voltage high
P1112	Intake air temperature (IAT) sensor - circuit/ intermittent voltage low
P1114	Engine coolant temperature (ECT) sensor - circuit/ intermittent voltage high
P1115	Engine coolant temperature (ECT) sensor - circuit/ intermittent voltage high
P1116	Engine coolant temperature (ECT) sensor – range/performance problem
P1120	Throttle motor position sensor 1 - circuit malfunction

P1121	Throttle position (TP) sensor – position lower than expected
P1122	Throttle position (TP) sensor – position higher than expected
P1125	Throttle position (TP) motor - fail safe mode
P1128	MAP sensor – signal lower than expected
P1129	MAP sensor – signal higher than expected
P1130	Heated oxygen sensor (HO2S) 2/3 – faulty components
P1133	Heated oxygen sensor (HO2S) - RH front - insufficient switching
P1134	Heated oxygen sensor (HO2S) - RH front - slow operation
P1149	Heated oxygen sensor (HO2S) – front – range/performance problem
P1153	Heated oxygen sensor (HO2S) - LH front - insufficient switching
P1154	Heated oxygen sensor (HO2S) - LH front - slow operation
P1157	Heated oxygen sensor (HO2S) – HO2S 1 – circuit malfunction
P1158	Heated oxygen sensor (HO2S) – front- circuit low voltage negative terminal
P1159	Heated oxygen sensor (HO2S) – front – circuit low voltage positive terminal
P1162	Heated oxygen sensor (HO2S) – front – circuit malfunction
P1163	Heated oxygen sensor (HO2S)- front- range/performanceproblem
P1164	Heated oxygen sensor (HO2S) – front – circuit/slow response
P1165	Heated oxygen sensor (HO2S) – front – range/performanceproblem
P1166	Heated oxygen sensor (HO2S)- front- heater circuit malfunction

P1167	Heated oxygen sensor (HO2S)- front- heater circuit malfunction
P1168	Heated oxygen sensor (HO2S) -front -low voltage
P1169	Heated oxygen sensor (HO2S) -front – high voltage
P1171	Heated oxygen sensor (HO2S) 1 – circuit malfunction
P1172	Heated oxygen sensor (HO2S) 1, bank 1 – out of range, high
P1174	Heated oxygen sensor (HO2S) 2, bank 2 – out of range, high
P1182	Fuel temperature sensor- low input
P1183	Fuel temperature sensor- high input
P1187	Fuel tank temperature sensor- low input
P1188	Fuel tank temperature sensor- high input
P1192	Fuel tank pressure sensor- low input
P1193	Fuel tank pressure sensor – high input
P1201	Fuel System Failure Caused No. 1 Cylinder Misfire
P1202	Fuel System Failure Caused No. 2 Cylinder Misfire
P1203	Fuel System Failure Caused No. 3 Cylinder Misfire
P1204	Fuel System Failure Caused No. 4 Cylinder Misfire
P1205	Fuel System Failure Caused No. 5 Cylinder Misfire
P1206	Fuel System Failure Caused No. 6 Cylinder Misfire
P1220	Throttle motor position sensor 2 - circuit malfunction
P1221	Throttle motor position sensor 1/2 - signal variation
P1241	Throttle Valve Control Motor Circuit 1 Malfunction
P1242	Throttle Valve Control Motor Circuit 2 Malfunction
P1243	Throttle Position Insufficient
P1244	Closed Throttle Position Insufficient
P1246	Accelerator Pedal Position Sensor 1 Circuit Malfunction
P1247	Accelerator Pedal Position Sensor 2 Circuit Malfunction
P1248	Accelerator Pedal Position Sensor 1 and 2 Incorrect correlation
P1253	VTEC system malfunction
P1257	VTEC system malfunction

P1258	VTEC system malfunction
P1259	VTEC system malfunction
P1271	Accelerator pedal position (APP) sensor 1/2 - signal variation
P1272	Accelerator pedal position (APP) sensor 2/3 - signal variation
P1273	Accelerator pedal position (APP) sensor 1/3 - signal variation
P1275	Accelerator pedal position (APP) sensor 1 - circuit malfunction
P1279	VTEC System Malfunction Front Bank 2
P1280	Accelerator pedal position (APP) sensor 2 - circuit malfunction
P1285	Accelerator pedal position (APP) sensor 3 - circuit malfunction
P1286	Oil pressure sensor, rocker arm – signal stuck low
P1287	Oil pressure switch, rocker arm – circuit high voltage
P1288	Oil pressure switch, rocker arm -circuit low voltage
P1289	Oil pressure sensor, rocker arm -stuck high
P128A	Valve position control circuit – valve stuck off
P128B	Valve position control circuit – malfunction
P1290	Throttle position (TP) motor - forced idle mode
P1295	Throttle position (TP) motor - power management mode
P1297	Electrical load detector – circuit low voltage
P1298	Electrical load detector – circuit high voltage
P1299	Throttle position (TP) motor - forced engine shut down mode
P1300	Random misfire
P1301	Cylinder Number 1 Random Misfire Detected
P1302	Cylinder Number 2 Random Misfire Detected
P1303	Cylinder Number 3 Random Misfire Detected

P1304	Cylinder Number 4 Random Misfire Detected
P1305	Cylinder Number 5 Random Misfire Detected
P1306	Cylinder Number 6 Random Misfire Detected
P1310	Ignition control module (ICM) - diagnosis
P1311	Ignition control module (ICM) - ignition coil secondary coil signal, circuit 1
P1312	Ignition control module (ICM) - ignition coil secondary coil signal, circuit 2
P1324	Knock sensor (KS) – circuit voltage low
P1326	Ignition control module (ICM) - combustion quality input signal
P1336	CSF Sensor Intermittent Interruption
P1337	CSF Sensor No Signal
P1340	Ignition control module (ICM) - cylinder identification/synchronization
P1355	Intake side ignition coil – power supply circuit malfunction
P1356	Exhaust side ignition coil – power supply circuit malfunction
P1359	Camshaft position (CMP) sensor – top dead center sensor 1 – connector disconnection
P1361	Camshaft position (CMP) sensor- intermittent signal
P1362	Camshaft position (CMP) sensor – no signal
P1366	Camshaft position (CMP) sensor B/TDC sensor 2 – intermittent signal
P1367	Camshaft position (CMP) sensor 8/TDC sensor 2 – no signal
P1380	Engine control module (ECM)/ABS control module, rough road signal - communication fault
P1381	Camshaft position (CMP) sensor- intermittent signal
P1382	Camshaft position (CMP) sensor- no signal
P1386	Cylinder Position Sensor 2 Intermittent Interruption
P1387	Cylinder Position Sensor Intermittant Interruption
P1390	G-sensor - intermittent voltage low

P1391	G-sensor - performance
P1392	G-sensor - voltage low
P1393	G-sensor - voltage high
P1394	G-sensor - intermittent voltage high
P1399	Random misfire
P1404	Exhaust gas recirculation (EGR) valve - valve closed
P1406	Exhaust gas recirculation (EGR) valve position sensor - circuit problem
P1410	Secondary air injection (AIR) pump – malfunction
P1415	AIR pump electrical current sensor – circuit low
P1416	AIR pump electrical current sensor – circuit high
P1420	NOx adsorptive catalyst system – efficiency below limit
P1429	Motor driver module – overheating signal circuit problem
P1430	Motor driver module – short circuit sensor malfunction
P1431	Hybrid battery pack – overheating
P1432	Battery cell – overheating
P1433	Hybrid battery pack – deterioration
P1434	Voltage converter module – high voltage
P1435	Charge/discharge balance problem
P1436	Motor power inverter module – overheating
P1437	Motor power inverter module – short circuit
P1438	Motor driver module – overheating
P1439	Motor driver module – short circuit
P1440	Motor power inverter module – output circuit malfunction
P1441	Evaporative emission (EVAP) canister purge system - flow detected
P1442	Evaporative emission (EVAP) canister purge system - vacuum switch malfunction
P1443	High voltage contactor/bypass contactor – contactor stays activated
P1444	High voltage short circuit

P1445	Bypass contactor malfunction
P1446	Hybrid battery pack – individual voltage input deviation
P1447	Hybrid battery pack deviation
P1448	Hybrid battery pack cooling – malfunction
P1449	Hybrid battery pack – deterioration
P1454	Fuel tank pressure sensor – circuit range/performance
P1456	Evaporative emission (EVAP) canister purge system (fuel tank system) – leak detected
P1457	Evaporative emission (EVAP) canister purge system (canister system)- leak detected
P1459	Evaporative emission (EVAP) canister purge system – switch malfunction
P145C	Evaporative emission (EVAP) canister purge system – incorrect flow
P1460	Fuel Level Sensor Power Supply Circuit
P1486	Thermostat – range/performance problem
P1491	Exhaust gas recirculation (EGR) system – valve lift insufficient
P1498	Exhaust gas recirculation (EGR) valve position sensor – voltage high
P1505	Intake system – leak detected
P1508	Idle air control (IAC) valve – circuit failure
P1509	IAC Valve Circuit Failure
P1514	Throttle position (TP) sensor/mass air flow (MAF) sensor - signal variation
P1515	Throttle command/actual throttle position - signal variation
P1516	Throttle position motor - position performance
P1519	Idle air control (IAC) valve – circuit failure
P1522	Brake booster pressure sensor – circuit malfunction, low voltage

P1523	Brake booster pressure sensor – circuit malfunction, high voltage
P1524	Brake booster pressure sensor – range/ performance problem
P1541	Passenger compartment heater standby signal circuit – low input
P1542	Passenger compartment heater standby signal circuit – high input
P1549	Generator system – high voltage
P1553	Hybrid battery pack temperature sensor 1 – signal circuit low input
P1554	Hybrid battery pack temperature sensor 1 – signal circuit high input
P1555	Hybrid battery pack temperature sensor 2 – signal circuit low input
P1556	Hybrid battery pack temperature sensor 2 – signal circuit high input
P1557	Hybrid battery pack temperature sensor 3 – signal circuit lowinput
P1558	Hybrid battery pack temperature sensor 3 – signal circuit highinput
P1559	Motor commutation sensor A – circuit low input
P1560	Motor commutation sensor A – circuit high input
P1561	Motor commutation sensor B – circuit low input
P1562	Motor commutation sensor B – circuit high input
P1563	Motor commutation sensor C – circuit low input
P1564	Motor commutation sensor C – circuit high input
P1565	Motor commutation signal problem
P1566	Motor commutation sensor -signal problem
P1567	Cylinder position signal circuit problem
P1568	Battery cell – temperature signal circuit malfunction
P1569	Battery cell – temperature signal circuit malfunction

P1570	Hybrid battery pack – individual voltage problem
P1571	Motor commutation sensor – voltage input problem
P1572	Motor driver module – temperature signal circuit high
P1573	DC-DC converter – temperature signal circuit high input
P1574	Hybrid battery pack – temperature signal circuit malfunction
P1575	Motor power inverter module – voltage malfunction
P1576	Motor driver module – voltage malfunction
P1577	High voltage detection signal – circuit problem
P1580	Battery current sensor – circuit malfunction
P1581	Motor power inverter module – current signal circuit problem
P1582	Motor current U phase signal circuit – high input
P1583	Motor current V phase signal circuit – high input
P1584	Brake fluid pressure sensor B – circuit low voltage
P1585	Brake fluid pressure sensor B – circuit range/performance problem
P1586	Brake fluid pressure sensor AIB – circuit malfunction
P1587	Motor power inverter module – current signal circuit low input
P1588	Motor power inverter module – current signal circuit high input
P1589	Motor power inverter module – current signal problem
P1590	Motor current U phase signal circuit – low input
P1591	Motor current U phase signal circuit – high input
P1593	Motor current V phase signal circuit – high input
P1594	Motor current W phase signal circuit – low input
P1595	Motor current W phase signal circuit – high input
P15A1	Motor driver module – temperature signal circuit high
P15A2	Motor driver module – voltage signal circuit – low input
P15A3	Motor driver module – voltage signal circuit – high input

P15A4	AJC compressor driver – relay stays activated
P15A5	Motor current sensor – circuit malfunction
P15A6	U phase motor current sensor – circuit malfunction
P15A7	V phase motor current sensor – circuit malfunction
P15A8	W phase motor current sensor – circuit malfunction
P15AA	Motor rotor – position not learned
P15AB	Engine mounting control module – power supply circuit – low voltage
P15AC	Engine mounting control module – internal circuit malfunction
P15AD	Engine mounting control module – internal circuit malfunction
P15AE	Cylinder pause signal malfunction
P15AF	Camshaft position (CMP) sensor- signal malfunction
P15AO	Motor driver module – temperature signal circuit low
P15B1	Camshaft position (CMP) sensor/crankshaft position (CKP) sensor- signal correlation
P15B2	Brake fluid pressure sensor A – circuit low voltage
P15B3	Brake fluid pressure sensor A – circuit range/performance problem
P15BO	Crankshaft position (CKP) sensor – signal malfunction
P1600	Integrated motor assist system malfunction
P1601	Integrated motor assist – system malfunction
P1605	CAN data bus
P1606	Integrated motor assist controller area network malfunction
P1607	Engine control module (ECM) – internal circuit failure
P1608	ECM – internal integrated motor assist controller area network – communication circuit malfunction
P1618	Engine control module (ECM) - internal fault
P1625	Engine control module (ECM) - unexpected reset

P1629	Battery current sensor – circuit malfunction
P1630	Transmission control module (TCM) processor error
P1633	Engine control module (ECM) circuit problem
P1634	Motor power inverter module – signal circuit malfunction
P1635	Battery condition monitor module – malfunction
P1636	Motor power inverter module – internal circuit malfunction
P1637	Motor control module (MCM) – internal circuit malfunction
P1638	Motor control module (MCM) – internal circuit malfunction
P1639	Motor control module (MCM) -signal circuit malfunction
P1640	Motor torque signal circuit – low input
P1641	Motor torque signal circuit – high input
P1642	Battery signal circuit – low input
P1643	Battery signal circuit – high input
P1644	Motor control module (MCM) – signal malfunction
P1645	Motor control module (MCM) – signal malfunction
P1646	Motor control module (MCM) – signal malfunction
P1647	Engine speed signal – circuit problem
P1648	Motor control module (MCM) – communication signal circuit problem
P1650	Engine control module quad driver/output driver
P1655	AT – signal failure
P1656	Electronic Stability Programme Control Module Communication Malfunction
P1658	Electronic throttle system (ETS) control relay – on malfunction
P1659	Electronic throttle system (ETS) control relay – off malfunction
P165B	Electronic throttle system (ETS) relay – malfunction
P1660	AT to ECM – data line failure – V6
P1673	Motor control module (MCM) – relay stays activated
P1676	ABS/TCS control module – communication malfunction

P1678	ABS/TCS control module – communication malfunction
P1679	RSCD Signal Circuit Malfunction
P1681	AT to ECM- signal A- voltage low
P1682	AT to ECM- signal A- voltage high
P1683	Throttle valve – default position spring performance problem
P1684	Throttle valve – return spring performance problem
P1685	Engine torque signal – circuit low input
P1686	Engine torque signal – circuit high input
P1687	AT to ECM- signal 8- voltage high
P1689	Mode signal circuit 2
P1690	Traction Control System Circuit Failure
P1696	Traction Control System Voltage Low
P1697	Traction Control System Voltage High
P16B3	Power command signaf circuit – low input
P16B4	Power command signal circuit – high input
P16B7	Mode signal circuit 1 – low input
P16B8	Mode signal circuit 1 – high input
P16BA	Battery cell – high input
P16BB	Generator system – low voltage
P16BC	Generator system – low voltage
P16C0	ECM – programming error
P16C1	Motor control module (MCM) – program not installed – battery condition monitor module program
P16C3	DC-DC converter temperature sensor – circuit malfunction
P16C4	Engine mounting control actuator – engine mounting control power supply circuit – stuck off
P16C5	Engine mounting control actuator – engine mounting control power supply circuit – stuck on
P16C6	Engine mounting control actuator – high voltage during function test

P16C7	Rear engine mounting actuator control circuit – control circuit high current
P16C8	Front engine mounting actuator control circuit – control circuit high current
P16C9	Engine mounting control module – internal circuit malfunction
P16D5	CAN data bus
P16D6	Integrated motor assist controller area network malfunction
P16D7	ECM – CAN data bus – communication circuit malfunction
P1705	CVT – gear shift malfunction
P1706	CVT – gear shift malfunction
P1709	AT - Sport shift mode malfunction
P1710	First Hold Switch Circuit Fault Stuck On
P1717	AT- gear selection malfunction
P1730	AT- gear shift malfunction
P1731	AT- gear shift malfunction
P1732	Problem In Shift Control System
P1733	AT- gear shift malfunction
P1734	AT – gear shift malfunction
P1738	Automatic transmission
P1739	Automatic transmission
P1740	AT – 4th clutch pressure switch
P1750	AT – hydraulic system mechanical malfunction
P1751	AT – hydraulic system mechanical malfunction
P1753	AT- no gear shift
P1758	AT – lock-up clutch not engaging
P1768	AT – lock-up clutch not engaging
P1773	AT – lock-up clutch not engaging
P1778	Clutch Pressure Control Solenoid Valve 'C' Circuit
P1786	AT – poor gear shift – V6

P1787	Automatic Transmission Lock-Up Clutch Malfunction
P1788	Automatic Transmission Poor Gear Shift
P1790	AT- lock-up clutch not engaging
P1791	AT – lock-up clutch not engaging- V6
P1792	AT- lock-up clutch not engaging
P1793	Automatic transmission
P1794	Automatic transmission – BARO signal – V6
P1835	AT - kick-down switch
P1850	AT - brake band solenoid malfunction
P1860	AT - torque converter clutch (TCC) solenoid circuit
P1870	CVT – poor acceleration
P1873	CVT – poor acceleration
P1876	CVT – poor acceleration
P1877	CVT – poor acceleration
P1878	CVT – poor acceleration
P1879	CVT – poor acceleration
P1880	CVT – poor acceleration
P1881	CVT – poor acceleration
P1882	Constantly variable transmission (CVT)
P1884	Secondary Gear Speed Sensor 2 Circuit Malfunction
P1885	CVT – poor acceleration
P1886	CVT – poor acceleration
P1888	CVT – poor acceleration
P1889	CVT – poor acceleration
P1890	CVT – poor acceleration
P1891	CVT – poor acceleration
P1892	CVT – poor acceleration
P1893	CVT – poor acceleration
P1894	CVT – poor acceleration
P1895	CVT – poor acceleration

P1896	CVT – poor acceleration
P1897	CVT – poor acceleration
P1898	CVT – poor acceleration
P1899	CVT – poor acceleration

# HYUNDAI



Codes	Definition
P1100	Manifold Absolute Pressure(MAP) Sensor – Malfunction Manifold ABSolute Pressure (MAP) Sensor Circuit Malfunction
P1101	Manifold Absolute Pressure(MAP) Sensor - Abnormal
P1102	Manifold Absolute Pressure(MAP) Sensor - Low Input Manifold Absolute Pressure/Barometric Pressure Circuit Low Input
P1103	Manifold Absolute Pressure(MAP) Sensor - High Input Manifold Absolute Pressure/Barometric Pressure Circuit High Input
P1104	Air Flow Sensor
P1105	Air Flow Sensor - Abnormal
P1106	Air Flow Sensor - Low Input Manifold Absolute Pressure Sensor Circuit Intermittent high
P1107	Air Flow Sensor - High Input Manifold Absolute Pressure Sensor Circuit Intermittent low
P1108	Fuel Pump
P1109	Fuel Pump - Abnormal
P1110	Fuel Pump - Stuck On Throttle Actuator Control System Malfunction
P1111	Fuel Pump - Electrical Intake Air Temp Circuit High Intake Air Temperature Sensor Circuit Intermittent high
P1112	Intake Air Temperature Sensor Circuit Intermittent low Intake Air Temp Circuit Low
P1113	Manifold Diff. Sensor-Abnormal
P1114	Engine Coolant Temp Low Engine Coolant Temperature Sensor Circuit Intermittent low

P1115	Engine Coolant Temperature (ECT) Sensor Signal From ECU to TCU Engine Coolant Temp High Engine Coolant Temperature Sensor Circuit Intermittent high
P1116	Boost Pressure Sensor-Malfunction.
P1118	ETS Motor-Malfunction. Throttle Actuator Control System Motor Malfunction
P1119	Inlet Metering Valve Control
P1120	Electronic Governor-Malfunction.
P1121	APS PWM Output Circuit Malfunction
P1122	Over Boost Pressure-Malfunction.
P1123	Fuel System Rich-Idle System too Rich at Idle(Bank 1) Fuel Trim too Lean at Idle (←Additive) (Bank 1)
P1124	Fuel System Lean-Idle
P1125	Fuel Press Sensor1
P1126	Fuel Press Sensor2
P1127	Fuel System Rich-Part Load Fuel Trim too Rich at Higher Load(Bank 1) Fuel Trim too Lean at Higher Load (←Multiple) (Bank 1)
P1128	Fuel System Lean-Part Load Fuel Trim too Lean at Higher Load(←Multiple) (Bank 1)
P1129	2nd Lock Solenoid Malfunction
P1130	Start Solenoid Malfunction
P1131	Fuel Adjustment Resistor
P1132	Liquid Fuel Solenoid Malfunction
P1133	Vapor Fuel Solenoid Malfunction
P1134	Heated Oxygen Sensor (HO2S)-B1/S1 HO2S Circuit-Transition Switch Time Malfunction / Slope (Bank 1 / Sensor 1)
P1135	Injection Timing Servo-Malfunction

P1136	INJECTION ERR:DTV(LAMBDA)X
P1140	Rationality Check-Throttle Position Sensor (TPS), Mass Air Flow (MAF) Sensor
P1141	Slow Duty Solenoid Malfunction
P1144	Slow Cut Solenoid Malfunction
P1145	Main Duty Solenoid Malfunction
P1146	Idle CO Potentiometer
P1147	Accel Position Sensor(ETS) Circuit Accelerator Pedal Position Sensor (APS) Circuit - ETS
P1150	Barometric Pressure Sensor Malfunction
P1151	Accel Position Sensor(EMS) Circuit Accelerator Pedal Position Sensor (APS) Circuit Malfunction Accelerator Pedal Position Sensor (APS) Circuit - EMS
P1152	Accelerator Pedal Position Sensor (APS) Circuit-Low Input (EMS)
P1153	Accelerator Pedal Position Sensor (APS) Circuit-High Input (EMS)
P1154	Heated Oxygen Sensor (HO2S)-B2/S1 HO2S Signal-Transition Switch Time Malfunction / Slope (Bank 2 / Sensor 1)
P1155	Limp Home Valve-Malfunction
P1159	Variable Induction System Variable Intake Motor Rotation System- Malfunction
P1162	High Pressure Pump&Fuel Line
P1166	Heated Oxygen Sensor (HO2S)(B1) Adaptation Fuel Trim(Bank 1)
P1167	Heated Oxygen Sensor (HO2S)(B2) Adaptation Fuel Trim(Bank 2)
P1168	Heated Oxygen Sensor (HO2S) Heater Power-B1/S2 HO2S Heater Power (Bank 1 / Sensor 2)

P1169	Heated Oxygen Sensor (HO2S) Heater Power-B2/S2 HO2S Heater Power (Bank 2 / Sensor 2)
P1170	Atmospheric Pressure Sensor Malfunction
P1171	ETS Valve Stuck-Open Throttle Actuator Control System-Stuck Open
P1172	ETS-Improper Motor Current Throttle Actuator Control System Improper Motor Current
P1173	ETS-Target Following Malfunction Throttle Actuator Control System-Target Following Malfunction
P1174	ETS Valve Stuck-Close#1 Electric Throttle Valve Control System (ETS) Valve #1 Stuck – Close
P1175	ETS Valve Stuck-Close#2 Electric Throttle Valve Control System (ETS) Valve #2 Stuck – Close
P1176	ETS Motor Open Short #1 Electric Throttle Valve Control System (ETS) Motor #1 Open or Short
P1177	ETS Motor Open Short #2 Electric Throttle Valve Control System (ETS) Motor #2 Open or Short
P1178	ETS Motor Power-Open Electric Throttle Valve Control System (ETS) Motor Power Open
P1179	Throttle Actuator Control System Throttle Position F/B – Mismatch
P1180	Fuel Pressure Regulator - Malfunction HO2S 1 Heater Circuit-Malfunction
P1181	Fuel Pressure Monitoring - Malfunction
P1182	Fuel Pressure Regulator - Short Circuit HO2S 2 Heater Circuit-Malfunction
P1183	Fuel Pressure Regulator - Open Circuit

P1184	O2 Sensor Circuit No Activity Detected (Bank 1 / Sensor 2) Fuel Pressure Regulator - Power
P1185	Maximum Pressure Exceeded Fuel Pressure Monitoring - Excessive
P1186	Minimum Pressure at Engine Speed Too Low Fuel Pressure Monitoring - too Low
P1187	Fuel Pressure Monitoring - Regulator Valve Stuck
P1188	Fuel Pressure Monitoring – Leakage
P1189	Governer Deviation
P1190	Intake Throttle Actuator-Malfunction
P1191	ETS-Limp Home Valve On Throttle Actuator Control System Limp Home-Valve On
P1192	Limp Home-Target Follow Malfunction. ETS LimpHome-Target Following Malfunction
P1193	Limp Home-Low Rpm Throttle Actuator Control System Limp Home-Low RPM
P1194	Limp Home-TPS2 Position Malfunction Throttle Actuator Control System Limp Home-Throttle Position Sensor 2 Position Malfunction
P1195	Limp Home-Target Follow Delay Throttle Actuator Control System Limp Home-Target Following Malfunction Throttle Actuator Control System Limp Home-Target Following Delay
P1196	Limp Home-Close Stuck Throttle Actuator Control System Limp Home-Stuck
P1221	Feedback (Main Duty) Solenoid
P1229	LPG Relay Circuit High Fuel Pump Diagnosis Malfunction
P1230	Slow Duty Solenoid
P1231	Fuel Pump malfunction
P1235	Active Air Flap System Fail

P1236	Active Air Flap F/B Voltage Low
P1237	Active Air Flap F/B Voltage High
P1240	Second Lock Solenoid Injector Leak Detected
P1250	Pressure Regulator Solenoid Malfunction
P1252	Pressure Regulator Solenoid High
P1282	Humidity Sensor Open (High) - AUTO Defog
P1283	Direction Potentiometer Open (Low) - AUTO Defog
P1284	Direction Potentiometer Short (High) - Auto Defog
P1285	Direction Control Motor -AUTO Defog
P1290	Pressure Limit Valve (DVB3) Error
P1295	ETC System Power Management Limp Home Mode - Power Management
P1300	TDC Sensor Crankshaft Position-Camshaft Position Correlation
P1301	TDC Sensor - Abnormal
P1302	TDC Sensor - Low Input
P1303	TDC Sensor - High Input
P1304	Phase Sensor
P1305	Phase Sensor - Abnormal
P1306	Phase Sensor - Low Input
P1307	Phase Sensor - High Input Acceleration Sensor Range/Performance Accelerator Pedal Position Sensor (APS) Malfunction
P1308	Acceleration Sensor Circuit Low Input Acceleration Sensor - Low Input
P1309	Acceleration Sensor Circuit High Input Acceleration Sensor - High Input
P1310	IG.Coil.1 - Low Output
P1311	IG.Coil.1 - High Output
P1312	IG.Coil.2

P1313	IG.Coil.2 - Abnormal
P1314	IG.Coil.2 - Low Output
P1315	IG.Coil.2 - High Output
P1316	IG.Coil.3
P1317	IG.Coil.3 - Abnormal
P1318	IG.Coil.3 - Low Output
P1319	IG.Coil.3 - High Output
P1320	IG.Coil.4
P1321	IG.Coil.4 - Abnormal
P1322	IG.Coil.4 - Low Output
P1323	IG.Coil.4 - High Output
P1324	Glow Relay Malfunction
P1325	Glow Relay Abnormal
P1326	Glow Relay Stuck On
P1327	Glow Relay Electrical
P1330	Spark Timing Adjust Signal
P1331	#1 MF Signal Line Short
P1332	#2 MF Signal Line Short
P1333	#3 MF Signal Line Short
P1334	#4 MF Signal Line Short
P1335	#5 MF Signal Line Short
P1336	#6 MF Signal Line Short
P1337	#7 MF Signal Line Short
P1338	#8 MF Signal Line Short
P1340	IFS 2 Open
P1341	#1 ION Line Open
P1342	#2 Ion Line Open
P1343	#3 Ion Line Open
P1344	#4 Ion Line Open
P1345	#5 ION Line Open

P1346	#6 Ion Line Open
P1347	#7 Ion Line Open
P1348	#8 Ion Line Open
P1351	#1 MF Signal Line Open
P1352	#2 MF Signal Line Open
P1353	#3 MF Signal Line Open
P1354	#4 MF Signal Line Open
P1355	#5 MF Signal Line Open
P1356	#6 MF Signal Line Open
P1357	#7 MF Signal Line Open
P1358	#8 MF Signal Line Open
P1372	Segment Time Incorrect Segment Time Acquisition Incorrect
P1386	Kncok Sensor Circuit Malfunction
P1400	Manifold Diff. Pressure Sensor
P1401	DMTL Performance
P1402	DMTL Motor Circuit
P1403	DMTL Motor Circuit Malfunction DMTL Valve Circuit
P1404	DMTL Heater Circuit Malfunction
P1405	EGR Temperature Incorrect
P1406	Exhaust Gas Temperature not Plausible between Calculated and Simulated
P1415	2nd Air Injection Insufficient (B1)
P1416	Secondary Air Injection 2nd Air Injection Insufficient (Bank 1)
P1418	2nd Air Injection Insufficient (B2)
P1419	2nd Air Injection Valve
P1440	Evap.System-Vent Circuit Evaporative System-Vent Circuit

P1443	Evap.System-Tank Cap Missing Evaporative Emission Control System Leak Detected
P1457	Purge Solenoid Valve Low System Malfunction
P1458	A/C Compressor Input Signal Malfunction
P1485	EGR Solenoid Vacuum Valve Open Or Short
P1486	EGR Solenoid Valve Vent Open or Short
P1487	EGR Boost Sensor Solenoid Valve Open or Short
P1500	Air Conditioning(A/C) Switch
P1501	Battery Temperature Too High Diagnostic
P1502	Wheel Speed Sensor Circuit Vehicle Speed Sensor Signal Circuit Malfunction Battery Not Charging Diagnostic
P1503	Cruise Control Malfunction-Control Switch
P1504	Cruise Control Malfunction-Cancel
P1505	Idle Speed Control Actuator Signal Low of Coil #1
P1506	Idle Speed Control Actuator Signal High of Coil #1
P1507	Idle Speed Control Actuator Signal Low of Coil #2
P1508	Idle Speed Control Actuator Signal High of Coil #2
P1509	MPS – High
P1510	Idle Air Control Valve Opening Coil Signal High Input Idle Speed Control Actuator Circuit 1-High Idle Speed Control Actuator Coil1 Signal Incorrect LPG Switch Line Malfunction
P1511	ISC Circuit Open/Short Idle Speed Control Actuator Coil2 Signal Incorrect
P1512	Engine Coolant Temperature Sensor - Low
P1513	ISC Actuator (Open)-Open Idle Air Control Valve Opening Coil Signal Low Input
P1515	Oil Temperature Sensor - Abnormal Idle Speed Control Actuator Circuit 1-Low Idle Speed Control Actuator Coil #1 (Open) Command Signal Malfunction

P1516	Oil Temperature Sensor - Low Idle Speed Control Actuator Coil #2 (Close) Command Signal Malfunction
P1517	Oil Temperature Sensor - High
P1520	Generator FR Terminal-Malfunction. Alternator Charging Signal Malfunction
P1521	Power Steering Switch-Malfunction. Power Steering Pressure Sensor/Switch Circuit Range/Performance Power Steering Switch Malfunction
P1522	Battery Sensor Supply Voltage 1-Low Input
P1523	ETC Throttle Position Sensor Position Reset Malfunction Sensor Supply Voltage 1-High Input Not Applicable-Used only as a service aid-not emissions related Throttle Actuator Control System - Throttle Valve Stuck
P1524	Sensor Supply Voltage 2-Low Input
P1525	Aps/Boost Pressure Sensor Power Sensor Supply Voltage 2-High Input
P1526	Sensor Supply Voltage 1-Malfunction
P1527	Sensor Supply Voltage 2-Malfunction
P1529	Transmission Control System (MIL Request) TCM Request For Malfunction Indicator Lamp (MIL) On Signal TCM MIL On Request Signal
P1530	Maximum Vehicle Speed Limiting-Malfunction
P1532	Electronic Throttle Control System Malfunction Throttle Valve Stuck
P1533	VICS Solenoid Valve 2 Circuit Malfunction
P1539	LPI Gas Injection IFB ECU-Malfunction

P1540	LPI Gas System CHECK IFB ECU (Mil off Error)
P1543	Brake Switch Signal Fault
P1545	A/C Compressor Switch Open/Short
P1550	Knock Sensor Evaluation IC Error
P1552	ISC Actuator (Close)-Short Idle Speed Control Actuator Circuit 2-High
P1553	ISC Actuator (Close)-Open Idle Speed Control Actuator Circuit 2-Low
P1555	Idle CO Potentiometer Open/Short Idle Co Potentiometer Open or Short
P1560	Knock Control Serial Port Interface check (Bank 1)
P1566	Analog Battery Sensor Circuit
P1567	Fuel Pressure Valve Current Low
P1568	Fuel Pressure Valve Current Hi
P1569	Fuel Pressure Control Valve Current Abnormal
P1572	Cruise Control System-Vehicle Speed lower than target speed
P1573	Cruise Control System-Vehicle Speed Too low
P1586	MT/AT Encoding Signal Error MT/AT Encoding Signal Malfunction
P1587	CAN Communication Error MT/AT Recognition Error
P1593	VICS Solenoid Valve 1 Circuit Malfunction
P1600	Serial Communication-Malfunction (With A/T)
P1601	ECU 'L' Line
P1602	Serial Communication Problem-TCM Serial Communication Problem With TCM CAN Communication-No Signal
P1603	ECM-TCS Control Module Communication Line ECU-TCU Communication Line Malfunction TCU Communication Line or TCU Error ECM-TCS Communication Line Malfunction

P1604	CAN-Bus-Off(TCU Fail or Circuit Fail) No ID From ECU Malfunction
P1605	Internal Control Module Read Only Memory(ROM) Error(IFB) Acceleration Sensor Malfunction
P1606	Vacuum Solenoid Valve Abnormal Chassis Acceleration Sensor Signal Malfunction
P1607	Serial Communication Problem with IFB ECU (Timeout)
P1608	Vacuum Solenoid Valve Electrical. ECM-ETS Communication Line-Malfunction (ETS- >EMS)
P1609	Immobilizer Communication.-Malfunction Immobilizer Communication-Malfunction
P1610	Non-Immobilizer-EMS Connected to an Immobilizer
P1611	Ventilation Solenoid Valve Stuck On ECM-TCM Malfunction Indicator Lamp (MIL) Request Line Malfunction Indicator Lamp (MIL) Request Circuit Low
P1612	Ventilation Solenoid Valve Electrical.
P1613	ECM Malfunction (Communication EMS<-ETS) ECM-ETS Communication Line-Malfunction (EMS->ETS) ECU-Failure Malfunction Indicator Lamp (MIL) Request Circuit High
P1614	ETS ECM-Malfunction. ETS ECU-Malfunction (EEPROM R/W)
P1615	P/N Relay ETS Malfunction (Communication ETS-EMS)
P1616	Main Relay-Malfunction Main Relay Control Circuit Malfunction
P1617	Malfunction Indicator Lamp (MIL) Power Stage Malfunction
P1618	Engine torque control – limit reached/exceeded
P1619	Main Relay
P161B	ECM Torque Calculation Performance

P1620	A/C Cut Relay Malfunction A/C Compressor Relay-Short
P1621	Fuel Cut Valve-Malfunction. A/C Compressor Relay Circuit - Open or Short
P1622	A/C Control Circuit Fail A/C Compressor Relay Circuit Malfunction
P1623	Diagnostic Lamp-Malfunction Diagnostic Lamp Malfunction Cooling Fan Relay Circuit Malfunction
P1624	Cooling Fan Relay(Low) Circuit. Cooling Fan Relay (Low) Circuit-Malfunction Cooling Fan Relay(Low) Circuit Malfunction
P1625	Cooling Fan Relay(High) Circuit Cooling Fan Relay (High) Circuit Malfunction
P1626	Immobilizer Indicator Malfunction
P1627	A/C Condenser Fan
P1628	Vapor Lamp Malfunction
P1629	Condenser Fan Relay (High) Circuit-Malfunction
P1630	CAN-Bus-Off TCU Communication Line Malfunction
P1631	CAN-Time Out ECM ECU Communication Line Malfunction Lost Communication With ECM/PCM 'A' (C-CAN)
P1632	CAN Bus Off ECU-TCS Communication Line Malfunction
P1633	Battery Overcharge
P1634	Auxiliary Heater Relay Short or Open
P1635	Water Heater Relay-Malfunction
P1636	Voltage Regulator For Injector
P1638	ECM (Microcontroller) - Malfunction
P1639	ECM (Monitoring ADC) - Malfunction

P1640	Variable Intake Motor-1 Variable Intake Manifold Control Motor 1 Circuit-Malfunction (VIM 1)
P1641	Variable Intake Motor-2 Variable Intake Manifold Control Motor 2 Circuit-Malfunction (VIM 2)
P1642	Non-Immobilizer ECM Equipped Immobilizer-BCM Mismatch
P1645	Booster Voltage-Operating Injector
P1646	Booster Voltage-too High
P1647	Booster Voltage-too Low
P1650	Malfunction Indicator Lamp (MIL) Control Circuit Indication lamp circuit malfunction
P1652	Ignition Switch Malfunction
P1653	Error Check After Ignition Off-Malfunction
P1655	Unused Power Stage B
P1657	Unused Power Stage C
P1660	Cruise Control Switch - Malfunction
P1661	Cruise Control Indicator Lamp-Malfunction
P1665	Ignition power stage A – circuit malfunction
P1670	Invalid Injector IQA/C2I
P1671	Injector Classification-Write Error
P1672	Fan Relay Malfunction-Low Speed
P1673	Cooling Fan Circuit Malfunction
P1674	Cooling Fan Control 3 Circuit Malfunction A/C Condenser Fan Relay-Malfunction Immobilizer-Transponder status Error
P1675	Cooling Fan Control 1 Circuit Low Immobilizer-Transponder Programming Error Immobilizer-Transponder Program Error
P1676	Cooling Fan Control 1 Circuit High Immobilizer-Smartra Message Error

P1677	Cooling Fan Control 2 Circuit Low EMS -VIN Data Error Immobilizer-EMS VIN Data Error (EMS has different VIN)
P1678	Cooling Fan Control 2 Circuit High EMS No Request ( EMS data line open, no immo.) Immobilizer-EMS No Request ( EMS data line open, no immo.)
P1679	Cooling Fan Control 3 Circuit Low EMS Data Fail (Data frame, CS, Message error) Immobilizer-EMS Data Fail (Data frame, CS, Message error)
P1688	Immobilizer Lock
P1689	Immobilizer - Unregistered Transponder
P1690	Smartra No Response Immobilizer-Smartra No Response Immobilizer-Smartra Error
P1691	Immobilizer-Antena Error Immobilizer-Antenna Coil Error
P1692	Immobilizer Indicator Lamp Immobilizer Lamp Error
P1693	Transponder No Response Error_Invalid Response Immobilizer-Transponder Error Transponder-Untaught (Virgin) TCM Malfunction Indicator Lamp (MIL) Request Line Malfunction
P1694	Immobilizer-EMS Message Error
P1695	Immobilizer-EMS Memory Error
P1696	Immobilizer-Key Mismatched Immobilizer-Authentication Fail Authentication Fail
P1697	Immobilizer-Tool Message Error
P1698	Cooling Fan Relay Circuit-High Key ID not Valid

	Transponder-Invalid Immobilizer-Invalid TP (TP has different PIN)
P1699	Immobilizer-Twice Overtrial
P169A	Immobilizer-SMARTRA Authentication Fail Smartra Authentication fail
P1700	Gear Shift Malfunction
P1701	Throttle Position Sensor(TPS)
P1702	Throttle Position Sensor(TPS)-Abnormal Throttle Position Sensor (TPS)-Malfunction Adjustment
P1703	Throttle Position Sensor(TPS)-Open/Short(GND)
P1704	Throttle Position Sensor(TPS)-High Input Throttle Position Sensor (TPS)-Open or Short Throttle Position Sensor (TPS)-Short
P1706	Inhibitor Switch
P1707	Brake Switch Cruise Control System Malfunction-Brake Switch
P1708	Accel Switch
P1709	K/D Servo Switch-Open/Short Kick Down Servo Switch-Open or Short to Ground
P1710	Oil Temperature Sensor
P1711	Oil Temperature Sensor Abnormal
P1712	Oil Temperature Sensor Low Input
P1713	Oil Temperature Sensor High Input
P1714	Closed Throttle Position Switch
P1715	Air Conditioning(A/C)Switch A/C Switch Circuit Malfunction
P1716	Steering Wheel Angle Sensor-Input Signal Malfunction
P1717	Steering Wheel Angle Sensor 1-Input Signal
P1718	Steering Wheel Angle Sensor 2-Input Signal
P1719	Steering Wheel Angle Sensor N-Input Signal
P1721	Control Relay

P1722	Control Relay – Abnormal
P1723	Control Relay - Stuck On TCM Power Relay Control Circuit/Open
P1724	Control Relay - Electrical
P1725	TOD Control Module Error
P1726	Throttle Position Sensor (TPS) Input-Loss of Signal Throttle Position Sensor (APS) Input-Loss of Signal
P1727	Throttle Position Sensor (TPS) Input-Out of Range
P1728	EMC-Open or Short to Battery
P1729	EMC-Short to Ground
P1730	Front Speed Sensor-Low Input
P1731	Front Speed Sensor-High Input
P1732	Rear Speed Sensor-Low Input
P1733	Rear Speed Sensor-High Input
P1734	Vehicle Speed Sensor Reference Voltage Low
P1735	Vehicle Speed Sensor Reference Voltage High
P1736	Shift Motor-Open or Short to Battery Motor Supply Voltage - High voltage
P1737	Shift Motor-Open or Short to Ground ECV Stick Motor Supply Voltage - Low Voltage
P1738	Shift System Timeout
P1739	General Position Encoder Fault
P1740	Position 1-Short to Ground
P1741	Position 2-Short to Ground
P1742	Position 3-Short to Ground TCM Power Relay Open or Short (Ground)
P1743	Position 4-Short to Ground
P1744	Abnormal Vibration Occurrence
P1745	TCM 'K' Line 4WD ECU Invalid Part Number

P1746	TCM 'L' Line
P1747	TCM-ECM Communication Line #1 Malfunction.
P1748	TCM-ECM Communication Line #2 Malfunction.
P1749	Serial Communication Link-Open or Short
P1750	TPS Communication Unification Malfunction. Throttle Position Sensor (TPS) Communication Malfunction Wheel Speed Sensor Signal (Left Front)
P1751	Auto Control Relay-Malfunction Wheel Speed Sensor Signal (Right Front)
P1752	Lamp 'P' Wheel Speed Sensor Signal (Left Rear)
P1753	Lamp 'R' Wheel Speed Sensor Signal (Right Rear)
P1754	Lamp 'N'
P1755	Lamp 'D' EMC Over Current
P1756	Lamp '3' EMC Internal Error
P1757	Lamp '2' EMC PWM Out of Range
P1758	Lamp 'L'
P1759	Control Module-Check Sum
P1760	Control Module-Programming Neutral Condition At R Range
P1761	Control Module-KAM
P1762	Control Module-RAM
P1763	Control Module-ROM
P1764	CAN Controller-Malfunction. CAN Controller-Malfunction ECU-ITM CAN Communication Line CAN MI-Communication or Circuit Malfunction

P1765	Transmission Fluid Pressure Sensor Signal Low Torque Reduction Request Torque Reduction Request Malfunction TCS-ITM CAN Communication Line
P1766	Transmission Fluid Pressure Sensor Signal High Torque Reduction Execution
P1767	CAN ABS Loss of Signal ABS Active Signal (CAN Error)
P1769	Tire Size Fault
P1770	Secondary Speed Sensor-System Error EMC thermal Protection - Lock Mode
P1771	EMC Thermal Protection - Shutdown
P1772	
P1773	Gearbox Input Speed Sensor
P1774	Speed Command PWM Line
P1775	TCM-Malfunction OPU Status Line
P1776	Power Control Module-Malfunction. Electric Oil Pump Hall IC Sensor failure
P1777	PCM Output-Malfunction. OPU Power Control Circuit Failure
P1778	Electro Valve Output-Malfunction. Engine Clutch VFS Fail
P1779	Starter Inhibit Relay-Malfunction. Supply Voltage Missing
P1780	Battery Voltage High Torque Reduction Request Signal (TCU-ECU) Engine Size Failure Control Unit Supply High Voltage Torque Control Signal Failure
P1781	Battery Voltage Low Control Unit Supply Low Voltage

P1782	Ignition Voltage Fault Invalid Transmission Gear
P1783	ABS-CVT Communication Line Short
P1784	EOP 3-Phase Wiring line open
P1785	Primary Speed Sensor-Open or Short
P1786	Inhibitor Switch Circuit High
P1787	Hydraulic Ratio Checking TGS Lever Position Sensor Error
P1791	Throttle Position Sensor (TPS) Input Circuit Malfunction
P1795	L4 Switch Signal Circuit
P17C0	DCT None-EOL
P17C1	Clutch1 Actuator Error
P17C2	Clutch2 Actuator Error
P1801	Immobilizer Transponder
P1802	Immobilizer-Antenna Error
P1803	Immobilizer ECM Signal Immobilizer-ECU Signal Error
P1805	Immobilizer-EEPROM Error
P1807	Clutch Position Sensor "B" Circuit Low
P1808	Clutch Position Sensor "B" Circuit High
P1811	ESP(TCS) Torque increase Over
P1815	ESP(TCS) Auto Recognition Error
P1820	Pump for 4WD Motor High Overcurrent Detected
P1821	Pump for 4WD Motor Wire Short to Battery
P1822	Pump for 4WD Motor Wire Open Load
P1823	Pump for 4WD Motor Wire Short to GND
P1824	Pump for 4WD Slow Thermal Overload
P1825	Pressure Sensor for 4WD Supply Short to Battery
P1826	Pressure Sensor for 4WD Supply Short to Ground
P1827	Pressure Sensor for 4WD Signal Wire Short to Battery
P1828	Pressure Sensor for 4WD Signal Wire Short to Ground

P1829	Clutch Torque Tolerance Upper Limit
P1830	Clutch Torque Tolerance Lower Limit
P1831	Clutch Thermal Overstress Warning
P1832	Clutch Thermal Overstress Shutdown
P1833	Actuator Thermal Overstress Warning
P1834	Actuator Thermal Overstress Shutdown
P1835	Pressure Sensor for 4WD Supply Offset Failure
P1836	Bleed Pressure Line Test Error
P1837	Vehicle Variant Can Not Be Detected
P1900	Clutch Actuator "B" Circuit/Open
P1925	Reverse Lamp Relay
P1929	Shift Lock Solenoid
P1986	EOP Relay Error
P1A6F	Airbag Deployment Signal Circuit High
P1A71	Airbag Deployment Signal Circuit Low
P1A77	Check Generator Belt
P1A86	Inappropriate and low SOC
P1A88	DC/DC Converter Cooling System Fault
P1A89	DC/DC Converter Current Sensor Fault
P1B03	Auxiliary Battery Temperature Sensor Circuit
P1B1D	OPI Fault
P1B25	High Voltage Battery Path Fault
P1B62	High Voltage Battery Current Sensor Circuit
P1B67	High Voltage Battery Current Sensor Circuit Fault
P1B70	High Voltage Battery Voltage Too Low
P1B71	High Voltage Battery Voltage Too High
P1B74	High Voltage Battery Voltage Sensor Circuit
P1B75	High Voltage Battery Current Value Error
P1B76	High Voltage Battery Relay Fault
P1B77	High Voltage Battery Precharging Fault

P1B78	High Voltage Battery Temperature Sensor Circuit Level 1
P1B79	High Voltage Battery Temperature Sensor Circuit Level 2
P1B84	High Voltage Battery Cell Voltage Deviation Too High
P1B95	High Voltage Battery Pack Deterioration
P1B96	High Voltage Battery Voltage Sensor Circuit Fault
P1B97	High Voltage Battery Temperature Sensor Circuit Fault
P1BA0	High Voltage Battery & MCU Cooling Fan Relay Circuit
P1BA1	High Voltage Battery FAN Fault
P1C28	OPI Current High
P1C2B	OPI Hall Sensor Error
P1C64	Drive Motor "A" Phase Cable Circuit Open
P1C6A	Generator Phase Cable Circuit Open
P1C76	Generator Position Sensor Not Learned
U1000	Head Unit ECM Error
	TV Unit Error
U1001	HW Watchdog Executed
	Microphone 1 not connected
	High Speed CAN Communication Bus (H-CAN)
U1002	Microphone 1 shortcut
	Lost Communication with ECM (H-CAN)
U1003	Temperature Sensor Signal Error in Head Unit
	Lost Communication With TCM (H-CAN)
U1004	Temperature Sensor Signal Error in Tunner and Amplifier
	Lost Communication with Hybrid Powertrain Control Module (H-CAN)
U1005	Lost Communication with Drive Motor Control Module (H-CAN)
	Lost Communication with Battery Energy Control Module "A" (H-CAN)
U1007	CAN Timeout OPU on C-CAN
U1010	Low Voltage Detected
U1011	High Voltage Detected

<b>U1045</b>	Sticking Key on Central Control Panel
<b>U1065</b>	Sticking Key on Rear Armrest Controller
<b>U1100</b>	High Speed CAN 2 Lost communication (EMS-DCT)
<b>U1103</b>	Lost Communication With TGS Lever
<b>U1111</b>	Battery Sensor fault detected by ECU BS_signal frame(Data) Error Lin Message Timeout with EBS
<b>U1112</b>	LIN Communication Error
<b>U1116</b>	Lost Communication With Motor Electronics Coolant Pump (C-CAN)
<b>U1117</b>	High Speed CAN2 Communication (EMS-DCT)
<b>U1121</b>	Lost Communication With Electric Stability Program Module
<b>U1138</b>	Fan Operation Error(Fan is running although should be off)
<b>U1139</b>	Fan Operation Error - no plug put or line open (Fan is not running although it should be on)
<b>U1401</b>	MOST Critical Unlock Detected
<b>U1440</b>	Ring Break Between Head Unit and TV Unit
<b>U1441</b>	Ring Break Before Position 1
<b>U1442</b>	Ring Break Between TV Unit and Amplifier Unit
<b>U1443</b>	Mozen: Ring Break Between Amplifier Unit and Mozen Unit, Non Mozen: Amplifier Unit and Head Unit
<b>U1444</b>	Mozen : Ring Break Between Mozen Unit and Head Unit, Non Mozen : Ignore
<b>U144F</b>	Ring Break Without Position Detection
<b>U1500</b>	Wakeup Line Short Circuit To Ground
<b>U1750</b>	HDD Invalid Media
<b>U1900</b>	GPS Antenna Line Break
<b>U1920</b>	DVD Drive Error
<b>U1940</b>	Front Display SDC Communication Error AmFm Antenna circuit Low (shortcut to GND )

<b>U1941</b>	AmFm Antenna circuit Open (not connected )
<b>U1942</b>	Rear Display SDC Communication Error Fm2 Antenna circuit Low
<b>U1943</b>	Fm2 Antenna circuit Open
<b>U1944</b>	XM Antenna circuit Low (UTA US only)
<b>U1945</b>	XM Antenna circuit Open (UTA US only)
<b>U1965</b>	Central Control Panel Serial Communication Error
<b>U1970</b>	Multimedia CAN Bus Off Error
<b>U1971</b>	Multimedia CAN Single Line Error
<b>U1972</b>	Multimedia CAN Limp Home Status
<b>U1980</b>	Timeout Multimedia CAN Message (Air Conditioner, Cluster, Audio)
<b>U1981</b>	Timeout Multimedia CAN Message (Vehicle Speed)
<b>U1982</b>	Timeout Multimedia CAN Message (Body CAN Signal - Camera, ECS, Trip Computer, Alternator, Auto Light)
<b>U1983</b>	Timeout Multimedia CAN Message (Trip Computer)
<b>U1984</b>	Timeout Multimedia CAN Message (Inhibitor Signal)
<b>U1985</b>	Timeout Multimedia CAN response for HU_6 0x86 CarSettings request

# INFINITI & NISSAN



Codes	Definition
P1031	Heated oxygen sensor (HO2S), bank 1, heater – voltage low
P1032	Heated oxygen sensor (HO2S), bank 1, heater – voltage high
P1051	Heated oxygen sensor (HO2S), bank 2, heater – voltage low
P1052	Heated oxygen sensor (HO2S), bank 2, heater – voltage high
P1065	Engine control module (ECM) – battery voltage supply
P1078	Camshaft position (CMP) sensor, exhaust – low voltage
P1084	Camshaft position (CMP) sensor, exhaust – high voltage
P1087	VVEL Small Event Angle Malfunction Bank 1
P1088	VVEL Small Event Angle Malfunction Bank 2
P1089	VVEL Control Shaft Position Sensor Bank 1 Circuit
P1090	VVEL Actuator Motor Bank 1
P1091	VVEL Actuator Motor Relay Circuit
P1092	VVEL Control Shaft Position Sensor Bank 2 Circuit
P1093	VVEL Actuator Motor Bank 2
P1102	Mass air flow (MAF) sensor – performance problem
P1103	MAP Sensor High Voltage
P1104	MAP Sensor Low Voltage
P1105	MAP - BARO switching valve - circuit malfunction
P1110	Intake valve timing control solenoid, bank 1 – malfunction
P1111	Intake valve timing control solenoid, bank 1 – circuit malfunction
P1119	Engine coolant temperature (ECT) sensor, radiator – circuit malfunction
P1120	Throttle position (TP) circuit malfunction
P1121	Throttle motor – malfunction
P1122	Throttle motor – circuit malfunction
P1123	Throttle motor relay – circuit malfunction
P1124	Throttle motor – short circuit
P1125	Throttle position (TP) sensor 1 & 2 - signal malfunction

P1126	Throttle motor – open circuit
P1128	Throttle motor – short circuit
P1130	Intake manifold air control solenoid – malfunction
P1131	Intake manifold air control solenoid – malfunction
P1132	Swirl Control Valve Circuit
P1135	Intake valve timing control solenoid, bank 2 – malfunction
P1136	Intake valve timing control solenoid, bank 2 – circuit malfunction
P1137	Swirl Control Valve Control Position Sensor Circuit
P1138	Swirl Control Valve Control System Performance
P1140	Camshaft position (CMP) actuator LH – circuit malfunction
P1143	Heated oxygen sensor (HO2S) 1, bank 1 – voltage low
P1144	Heated oxygen sensor (HO2S) 1, bank 1 – voltage high
P1145	Camshaft position (CMP) actuator RH – circuit malfunction
P1146	Heated oxygen sensor (HO2S) 2, bank 1 – voltage low
P1147	Heated oxygen sensor (HO2S) 2, bank 1 – voltage high
P1148	Closed loop control, bank 1 – inoperative
P1163	Heated oxygen sensor (HO2S)
P1164	Heated oxygen sensor (HO2S) 1, bank 2 – voltage high
P1165	Intake manifold air control system -vacuum check switch circuit malfunction
P1166	Heated oxygen sensor (HO2S) 2, bank 2 – voltage high
P1167	Heated oxygen sensor (HO2S) 2, bank 2 – voltage high
P1168	Closed loop control LH – inoperative
P1195	Engine Does Not Start
P1196	Poor Engine Power
P1197	Low Input From Fuel Level Sensor
P1210	Traction control system - malfunction
P1211	ABS/TCS control module – communication malfunction
P1212	ABS/TCS control module – circuit malfunction
P1217	Engine over temperature

P1220	Fuel pump control module – circuit malfunction
P1223	Throttle position (TP) sensor 2 -voltage low
P1224	Throttle position (TP).sensor 2 – voltage high
P1225	Throttle motor position sensor – learning problem, voltage low
P1226	Throttle motor position sensor – learning problem
P1227	Accelerator pedal position (APP) sensor 2 – voltage low
P1228	Accelerator pedal position (APP) sensor 2 – voltage high
P1229	Engine control module (ECM) – sensor supply voltage low/high
P1233	Electronic throttle control – performance
P1234	Throttle motor position sensor – learning problem, voltage low, bank 2
P1235	Throttle motor position sensor – learning problem, bank 2
P1236	Throttle control motor – short circuit
P1238	Throttle control motor – malfunction
P1239	Throttle position (TP) – performance
P1271	Heated oxygen sensor (HO2S), bank 1 – voltage low
P1272	Heated oxygen sensor (HO2S), bank 1 – voltage high
P1273	Heated oxygen sensor (HO2S), bank 1 – lean mixture
P1274	Heated oxygen sensor (HO2S), bank 1 – rich mixture
P1276	Heated oxygen sensor (HO2S), bank 1 – activity
P1277	Air Fuel Ratio Sensor 1 Bank 1 Circuit Slow Response
P1278	Heated oxygen sensor (HO2S), bank 1 – slow response
P1279	Heated oxygen sensor (HO2S), bank 1 – slow response
P1281	Heated oxygen sensor (HO2S), bank 2 – voltage low
P1282	Heated oxygen sensor (HO2S), bank 2 – voltage high
P1283	Heated oxygen sensor (HO2S), bank 2 – lean mixture
P1284	Heated oxygen sensor (HO2S), bank 2 – rich mixture
P1286	Heated oxygen sensor (HO2S), bank 2 – activity
P1288	Heated oxygen sensor (HO2S), bank 2 – slow response

P1289	Heated oxygen sensor (H02S), bank 2 – slow response
P1290	Throttle control motor relay – voltage low
P1320	Ignition signal – circuit malfunction
P1335	Crankshaft position (CKP) sensor – circuit malfunction
P1336	Crankshaft position (CKP) sensor- signal malfunction
P1400	Exhaust gas recirculation (EGR) valve - voltage incorrect
P1401	Exhaust gas recirculation temperature (EGRT) sensor – circuit malfunction
P1402	Exhaust gas recirculation (EGR) system – excessive flow
P1421	Cold start emission control – malfunction
P1440	Evaporative emission (EVAP) canister purge control system – small leak
P1441	Evaporative emission (EVAP) canister purge control system – small leak
P1442	Evaporative emission (EVAP) canister purge system – small leak
P1443	Evaporative emission (EVAP) canister purge control system - circuit malfunction
P1444	Evaporative emission (EVAP) canister purge control system – malfunction
P1445	Evaporative emission (EVAP) canister purge control valve - circuit malfunction
P1446	Evaporative emission (EVAP) canister purge control valve – malfunction
P1447	Evaporative emission (EVAP) canister purge control system – malfunction
P1448	Evaporative emission (EVAP) canister purge control valve – malfunction
P1456	Evaporative emission (EVAP) canister purge system – very small leak
P1464	Fuel gauge tank sensor- voltage high
P1480	Engine coolant blower motor control – circuit malfunction

P1490	Evaporative emission (EVAP) canister purge control system – malfunction
P1491	Evaporative emission (EVAP) canister purge control system – malfunction
P1492	Evaporative emission (EVAP) canister purge control valve - malfunction
P1493	Evaporative emission (EVAP) canister purge control valve - malfunction
P1550	Battery condition sensor – malfunction
P1551	Battery condition sensor – low voltage
P1552	Battery condition sensor – high voltage
P1553	Battery condition sensor – signal too high
P1554	Battery condition sensor – signal too low
P1564	Cruise control master switch – circuit malfunction
P1568	Cruise control master switch – signal out of specification
P1572	Cruise control brake pedal switch – circuit malfunction
P1574	Cruise control vehicle speed sensor – signal malfunction
P1605	AT diagnosis communication -signal failure
P1610	Ignition key/engine control module (ECM) – malfunction
P1611	Immobilizer control module/engine control module (ECM) – coding
P1612	Immobilizer control module/engine control module (ECM) communication – malfunction
P1613	Engine control module (ECM), immobilizer function – internal failure
P1614	Immobilizer control module/module coding plug communication – no signal
P1615	Ignition key/immobilizer control module communication – malfunction
P1700	CVT shift control – malfunction
P1701	Transmission Control Module Power Supply
P1702	Transmission Control Module RAM

P1703	Transmission Control Module ROM
P1704	Transmission Control Module
P1705	AT- throttle position (TP) sensor- voltage high or low
P1706	Park/neutral position (PNP) switch – circuit malfunction
P1710	Automatic Transmission Fluid Temperature Sensor Circuit.
P1715	Automatic transmission turbine shaft speed (TSS) sensor- circuit malfunction
P1716	AT – turbine revolution sensor- circuit malfunction
P1720	Vehicle speed sensor (VSS) – signal variation
P1721	Vehicle Speed Sensor MTR
P1722	Estimated Vehicle Speed Signal
P1726	Electric Throttle Control System
P1730	AT- fail safe function -circuit malfunction
P1731	A/T 1st Engine Brake
P1740	CVT lock-up select solenoid valve – malfunction
P1752	AT – input clutch – solenoid valve malfunction
P1754	AT- input clutch- solenoid valve malfunction
P1757	AT- front brake- solenoid valve malfunction
P1759	AT -front brake – solenoid valve malfunction
P1760	AT- overrun clutch solenoid – voltage low
P1762	AT- direct clutch- solenoid valve malfunction
P1764	AT- direct clutch – solenoid valve malfunction
P1767	AT- high/low reverse solenoid valve – malfunction
P1769	AT – high/low reverse solenoid valve – malfunction
P1772	AT – low coast brake solenoid valve – malfunction
P1774	AT – low coast brake solenoid valve – malfunction
P1775	Torque Converter Clutch Solenoid Valve
P1776	Ignition Retard Request Duration Fault
P1777	CVT step motor – circuit malfunction
P1778	CVT step motor – mechanical malfunction

P1780	AT- shift change – signal malfunction
P1800	Intake manifold air control solenoid – circuit malfunction
P1801	Variable Intake Air System Control Solenoid Valve 2
P1805	Brake pedal position (BPP) switch – circuit malfunction
P1807	Vehicle Speed Sensor A/T
P1808	Vehicle Speed Sensor ABS
P1810	4 LO Switch
P1813	4WD Shift Switch
P1814	Wait Detection Switch
P1815	Manual Mode Switch
P1816	Park/Neutral Position Switch
P1817	Actuator Motor
P1818	Actuator Position Switch
P1819	Transfer Control Device
P1820	Engine Speed Signal
P1841	Automatic Transmission Fluid Pressure Switch 1
P1843	Automatic Transmission Fluid Pressure Switch 3
P1845	Automatic Transmission Fluid Pressure Switch 5
P1846	Automatic Transmission Fluid Pressure Switch 6
P1900	Engine coolant blower motor - circuit
U1000	CAN communication line – signal malfunction
U1001	CAN communication line – signal malfunction
U1010	CAN communication line – initialization malfunction

# KIA



Codes	Definition
P1100	Manifold absolute pressure (MAP) sensor- for EGR system – circuit malfunction
P1102	Manifold absolute pressure (MAP) sensor – for EGR system – mode 3
P1103	Manifold absolute pressure (MAP) sensor- for EGR system – mode 2
P1106	Manifold absolute pressure (MAP) sensor – signal high
P1107	Manifold absolute pressure (MAP) sensor – signal low
P1110	Electronic throttle system (ETS) – malfunction
P1111	Intake air temperature (IAT) sensor- circuit low input intermittent
P1112	Intake air temperature (IAT) sensor- circuit high input intermittent
P1114	Engine coolant temperature (ECT) sensor – signal malfunction
P1115	Engine coolant temperature (ECT) sensor – signal malfunction:
P1117	HO2S Circuit Low Voltage Bank 1 Sensor 2
P1118	Electronic throttle system (ETS), throttle motor – malfunction
P1121	AT- TP sensor signal
P1134	Heated oxygen sensor (HO2S)- front, bank 1 – signal malfunction
P1151	Accelerator pedal position (APP) sensor – circuit malfunction
P1152	Accelerator pedal position (APP) sensor – low input
P1153	Accelerator pedal position (APP) sensor – high input
P1154	Heated oxygen sensor (HO2S) -front, bank 2 – signal malfunction
P1155	Limp-home solenoid – malfunction
P1159	Intake manifold air control actuator – circuit malfunction

P1166	Heated oxygen sensor (HO2S)- front, bank 1 – control limit
P1167	Heated oxygen sensor (HO2S) – front, bank 2 – control limit
P1168	Heated oxygen sensor (HO2S), heater- rear, bank 1 – circuit malfunction
P1169	Heated oxygen sensor (HO2S), heater- rear, bank 2 – circuit malfunction
P1170	Heated oxygen sensor (HO2S) – front- no signal change
P1171	Electronic throttle system (ETS), WOT – malfunction
P1172	Electronic throttle system (ETS), throttle motor – circuit malfunction
P1173	Electronic throttle system (ETS) -throttle valve command/actual throttle valve position, correlation
P1174	Electronic throttle system (ETS), closed throttle – range/performance problem
P1175	Electronic throttle system (ETS), closed throttle – range/performance problem
P1176	Electronic throttle system (ETS), throttle motor – circuit 1 malfunction
P1177	Electronic throttle system (ETS), throttle motor – circuit 2 malfunction
P1178	Electronic throttle system (ETS) – supply voltage
P1183	Fuel Pressure Regulator Open
P1186	Fuel Pressure Too Low
P1187	Fuel Pressure Monitoring - Regulator Valve Stick
P1188	Fuel Pressure Monitoring - Leakage
P1189	Fuel Pressure Monitoring - Governor Deviation at Engine speed Too high
P1190	Intake Throttle Actuator Malfunction
P1191	Electronic Throttle System Limp Home Valve On
P1192	Limp-home solenoid – signal malfunction
P1193	Limp-home solenoid – rpm lower than expected
P1194	Limp-home solenoid – signal malfunction

P1195	Manifold absolute pressure (MAP) sensor - for EGR system - circuit malfunction
P1196	Limp-home solenoid – malfunction
P1250	Fuel pressure regulator control solenoid – circuit malfunction
P1252	Pressure Regulator Control Solenoid Valve No. 2 Circuit Malfunction
P1295	Electronic throttle system (ETS) – circuit malfunction
P1307	G-force sensor – signal malfunction
P1308	G-force sensor – signal low
P1309	G-force sensor – signal high
P1330	Ignition adjustment connector – short to ground
P1345	No Camshaft Position Sensor Signal
P1372	Crankshaft position (CKP) sensor – signal malfunction
P1386	Knock sensor (KS)
P1401	EVAP system malfunction
P1402	Evaporative emission (EVAP) leak detection module pump - circuit malfunction - Spectra 2002
P1403	Evaporative emission (EVAP) leak detection module solenoid – circuit malfunction
P1404	Evaporative emission (EVAP) leak detection module heater – circuit malfunction
P1446	Evaporative emission (EVAP) leak detection module solenoid – circuit malfunction
P1447	Evaporative emission (EVAP) leak detection module pump – circuit malfunction
P1448	Evaporative emission (EVAP) leak detection module heater – circuit malfunction
P1449	Evaporative emission (EVAP) canister purge valve – circuit malfunction
P1450	Evaporative emission (EVAP) canister purge system – vacuum leak detected

P1455	Fuel tank level sensor- circuit malfunction
P1457	Evaporative emission (EVAP) canister purge valve (low)
P1458	AJC compressor control – signal malfunction
P1485	Exhaust gas recirculation (EGR) solenoid (vacuum) – circuit malfunction
P1486	Exhaust gas recirculation (EGR) solenoid (vent) – circuit malfunction
P1487	Manifold absolute pressure (MAP) sensor solenoid – EGR system – circuit malfunction
P1496	Exhaust gas recirculation (EGR) valve – circuit 1 malfunction
P1497	Exhaust gas recirculation (EGR) valve – circuit 2 malfunction
P1498	Exhaust gas recirculation (EGR) valve – circuit 3 malfunction
P1499	Exhaust gas recirculation (EGR) valve – circuit 4 malfunction
P1500	Vehicle speed signal – malfunction
P1501	Battery Temperature Too High
P1502	Battery Not Charging
P1503	Cruise control master switch – malfunction
P1504	Cruise control master switch – signal malfunction
P1505	Idle air control (IAC) valve -opening coil signal low
P1506	Idle air control (IAC) valve – opening coil signal high
P1507	Idle air control (IAC) valve – closing coil signal low
P1508	Idle air control (IAC) valve – closing coil signal high
P1510	Idle air control (IAC) valve – coil 1 -circuit malfunction
P1511	Idle air control (IAC) valve – coil 2 – circuit malfunction
P1521	Power steering pressure (PSP) switch – circuit malfunction
P1523	Electronic throttle system (ETS)- malfunction
P1529	MIL request signal – TCM to ECM

P1550	Knock sensor (KS) – circuit malfunction
P1560	Knock sensor (KS)/serial communication interface – circuit malfunction
P1586	AT coding signal
P1587	CAN Communication Error MT/AT Recognition Error
P1602	Transmission control module (TCM) – communication malfunction
P1603	CAN Communication Bus Error
P1607	Engine control module (ECM)/electronic throttle system (ETS) control module – communication malfunction
P1608	Engine control module (ECM) - malfunction
P1609	Immobilizer – malfunction
P1611	MIL request signal – circuit/voltage low
P1613	Engine control module (ECM) - self test failed
P1614	MIL request signal - circuit/voltage high
P1615	Electronic throttle system (ETS) control module – malfunction
P1616	Engine control relay – circuit malfunction
P161B	Engine control module (ECM)/torque information – malfunction
P1623	Malfunction indicator lamp (MIL) – circuit malfunction
P1624	Except Optima: MIL request signal - TCM to ECM
P1625	Engine coolant blower motor relay high speed – circuit malfunction
P1630	CAN Communication BUS OFF
P1631	Generator voltage – no charge
P1632	Battery voltage monitor - circuit malfunction
P1633	Battery voltage – overcharging
P1634	Generator terminal B – open circuit
P1640	Engine control relay – voltage low/high

P1642	Engine control module (ECM) – non immobilizer/incorrect type
P1673	Coolant blower motor – circuit malfunction
P1690	Immobilizer control module – malfunction
P1691	Immobilizer read coil
P1693	MIL - circuit malfunction
P1694	CAN data bus, immobilizer control module – signal malfunction
P1695	Engine control module (ECM)- EEPROM error
P1696	Immobilizer control module – invalid data received.
P1700	Overdrive lamp – circuit malfunction
P1707	Cruise/brake switch – circuit malfunction
P1765	Transmission control module (TCM)- torque reduction malfunction
P1780	Transmission control module (TCM) – ignition advance circuit malfunction
P1794	Supply voltage
P1795	4WD low gear position switch- circuit malfunction
P1797	Park/neutral position (PNP) switch – circuit malfunction
P1800	Engine torque signal – malfunction
P1801	Immobilizer Transponder Error
P1802	Immobilizer Antenna Error
P1803	Immobilizer ECU Signal Error

# MAZDA



<b>Codes</b>	<b>Definition</b>
P1001	Data link connector (DLC) – self-test terminated
P1100	Mass air flow (MAF) sensor – intermittent sensing
P1101	Mass air flow (MAF) sensor – out of self-test range
P1102	Mass air flow (MAF) sensor – incomparable with TP sensor signal – signal low
P1103	Mass air flow (MAF) sensor – incomparable with RPM signal – signal high
P1110	Intake air temperature (IAT) sensor (engine)- short/open circuit
P1112	Intake air temperature (IAT) sensor – intermittent sensing
P1113	Intake air temperature (IAT) sensor (supercharger) – short/open circuit
P1114	Intake air temperature (IAT) sensor – voltage low
P1115	Intake air temperature (IAT) sensor- voltage high
P1116	Engine coolant temperature (ECT) sensor- out of self-test range
P1117	Engine coolant temperature (ECT) sensor – intermittent sensing
P1120	Throttle position (TP) sensor – out of range “low”
P1121	Throttle position (TP) sensor – incomparable with MAF sensor signal
P1122	Throttle position (TP) sensor – stuck closed
P1123	Throttle position (TP) sensor – stuck open
P1124	Throttle position (TP) sensor – out of self-test range
P1125	Throttle position (TP) sensor – intermittent circuit fault
P1126	Throttle position (TP) sensor – circuit fault
P1127	Heated oxygen sensor (H02S) – RH or rear bank -front (6 cyl) – heater circuit malfunction
P1128	Heated oxygen sensor (H02S) -front – bank 1/bank 2 sensors transposed

P1129	Heated oxygen sensor (HO2S)- rear- bank 1/bank 2 sensors transposed
P1130	Heated oxygen sensor (HO2S) 1, bank 1 – adaptive limit achieved
P1131	Heated oxygen sensor (HO2S) 1, bank 1 – lean mixture indicated
P1132	Heated oxygen sensor (HO2S) 1, bank 1 – rich mixture indicated
P1133	Fuel trim (FT) lean mixture – bank 1
P1134	Fuel trim (FT) rich mixture – bank 1
P1135	Heated oxygen sensor (HO2S) 1, bank 1, heater control – circuit low
P1136	Heated oxygen sensor (HO2S) 1, bank 1, heater control – circuit high
P1137	Heated oxygen sensor (HO2S)- rear- adaptive limit achieved
P1138	Heated oxygen sensor (HO2S) – rear- adaptive limit achieved
P1141	Heated oxygen sensor (HO2S) 2, bank 1, heater control – circuit low
P1142	Heated oxygen sensor (HO2S) 2, bank 1, heater control – circuit high
P1143	Heated oxygen sensor (HO2S) 2, bank 1 – lean mixture indicated
P1144	Heated oxygen sensor (HO2S) 2, bank 1 – rich mixture indicated
P1150	Heated oxygen sensor (HO2S) – LH or front bank -front (6 cyl) – adaptive limit achieved
P1151	Heated oxygen sensor (HO2S) – LH or front bank -front (6 cyl) – lean mixture indicated
P1152	Heated oxygen sensor (HO2S) – LH or front bank – front (6 cyl) – rich mixture indicated
P1153	Fuel trim (FT) lean mixture – bank 2

P1154	Fuel trim (FT) rich mixture – bank 2
P1157	Heated oxygen sensor (HO2S) 2, bank 2 – lean mixture indicated
P1158	Heated oxygen sensor (HO2S) 2, bank 2 – rich mixture indicated
P115E	Throttle body – restricted flow
P1168	Fuel rail pressure sensor- signal low
P1169	Heated oxygen sensor (HO2S) (except Tribute -+2005)- rear (6 cyl) – voltage high
P1170	Heated oxygen sensor (HO2S) LH or front bank – front (6 cyl) – voltage high
P1173	Heated oxygen sensor (HO2S) RH or rear bank – front (6 cyl) – voltage high
P1195	Exhaust gas recirculation (EGR) system sensor – malfunction
P1196	Starter signal – circuit malfunction
P1224	Throttle Position Sensor 'B' Out of Self-Test Range
P1233	Fuel pump (FP) control module – control module disabled or off line
P1234	Fuel Pump Driver Module Disabled Or Off Line
P1235	Fuel pump (FP) control – out of range
P1236	Fuel Pump Driver Module Disabled or Off Line
P1237	Fuel pump (FP) – secondary circuit malfunction
P1238	Fuel Pump Driver Module Disabled or Off Line
P1239	Speed Fuel Pump Positive Feed
P1244	Generator/regulator system – load input out of range
P1245	Generator/regulator system – load input out of range
P1246	Generator/regulator system – load input out of range
P1250	Fuel pressure (FP) control solenoid valve 1 – malfunction
P1251	Idle speed control (ISC) system – rpm lower than expected
P1252	Fuel pressure (FP) control solenoid valve 2 – malfunction

P1260	Theft detected – engine immobilized
P1261	Cylinder #1 High To Low Side Short
P1262	Cylinder #2 High To Low Side Short
P1263	Cylinder #3 High To Low Side Short
P1264	Cylinder #4 High To Low Side Short
P1265	Cylinder #5 High To Low Side Short
P1266	Cylinder #6 High To Low Side Short
P1270	Maximum engine RPM or vehicle speed obtained
P1271	Cylinder #1 High To Low Side Open
P1272	Cylinder #2 High To Low Side Open
P1273	Cylinder #3 High To Low Side Open
P1274	Cylinder #4 High To Low Side Open
P1275	Cylinder #5 High To Low Side Open
P1276	Cylinder #6 High To Low Side Open
P1285	Cylinder head temperature (CHT) sensor- overheating detected
P1288	Cylinder head temperature (CHT) sensor- out of self-test range
P1289	Cylinder head temperature (CHT) sensor – circuit malfunction
P1290	Cylinder head temperature (CHT) sensor – circuit malfunction
P1299	Cylinder head temperature (CHT) sensor- fail safe cooling activated
P1308	A/C Clutch Circuit Fault
P1309	Misfire detection monitor – not enabled
P1336	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor – circuit range/ performance
P1340	Camshaft Position Sensor 'B' Circuit
P1341	Camshaft Position Sensor 'B' Circuit Range/Performance
P1342	PCM Malfunction

P1345	Camshaft position (CMP) sensor – signal malfunction
P1351	Engine control module (ECM) – loss of ignition diagnostic monitor
P1352	Ignition coil A – primary circuit malfunction
P1353	Ignition coil 8 – primary circuit malfunction
P1354	Ignition coil C – primary circuit malfunction
P1355	Ignition coil D – primary circuit malfunction
P1358	Engine control module (ECM) -loss of ignition diagnostic monitor
P1359	Engine control module (ECM) – loss of ignition output signal
P1360	Ignition coil A – secondary circuit malfunction
P1361	Ignition coil 8 – secondary circuit malfunction
P1362	Ignition coil C – secondary circuit malfunction
P1363	Ignition coil D – secondary circuit malfunction
P1364	Ignition coil – primary circuit malfunction
P1365	Ignition coil – secondary circuit malfunction
P1380	Camshaft Position Actuator Circuit Bank 1
P1381	Camshaft Position Timing Over Advanced Bank 1
P1382	Camshaft position (CMP) sensor – malfunction
P1383	Camshaft Position Timing Over Retarded Bank 1
P1385	Camshaft Position Actuator Circuit Bank 2
P1386	Camshaft Position Timing Over Advanced Bank 2
P1387	Camshaft position (CMP) sensor – malfunction
P1388	Camshaft Position Timing Over Retarded Bank 2
P1390	Octane adjust – out of self-test range
P1397	System voltage – out of self-test range
P1400	Differential pressure feedback sensor – low voltage detected
P1401	Differential pressure feedback sensor – high voltage detected

P1402	Exhaust.gas recirculation (EGR) valve position sensor – voltage low/high
P1403	Differential pressure feedback sensor – hoses reversed
P1405	Differential pressure feedback sensor – upstream hose off or plugged
P1406	Differential pressure feedback sensor – downstream hose off or plugged
P1407	Exhaust gas recirculation (EGR) system – no flow detected
P1408	Exhaust gas recirculation (EGR) system -flow out of self-test range
P1409	Electronic vacuum regulator control – circuit malfunction
P1410	Exhaust gas recirculation (EGR) boost sensor/solenoid – stuck
P1412	Exhaust gas recirculation (EGR) solenoid – malfunction
P1432	Engine coolant thermostat – circuit malfunction
P1442	Evaporative emission (EVAP) system – system leak detected
P1443	Evaporative emission (EVAP) canister purge control system
P1444	Evaporative emission (EVAP) canister purge flow sensor – low input
P1445	Evaporative emission (EVAP) canister purge flow sensor – high input
P1446	Evaporative emission (EVAP) system
P1449	Evaporative emission (EVAP) canister purge system – tank pressure problem
P1450	Evaporative emission (EVAP) canister purge system – leak
P1451	Evaporative emission (EVAP) canister vent valve – circuit malfunction
P1452	Evaporative emission (EVAP) system – fuel tank vacuum test failed
P1455	Fuel tank level sensor- short/open circuit

P1456	Evaporative emission (EVAP) system
P1457	Evaporative emission (EVAP) system
P145E	Positive crankcase ventilation (PCV) heater – circuit malfunction
P1460	Wide open throttle (WOT) air conditioning cut off- circuit malfunction
P1461	A/C refrigerant pressure sensor – high voltage
P1462	A/C refrigerant pressure sensor – low voltage
P1463	A/C refrigerant pressure sensor – insufficient pressure change
P1464	A/C control signal – voltage high during self-test
P1465	A/C control signal – malfunction
P1469	Frequent A/C compressor clutch cycling
P1473	Cooling fan – circuit malfunction
P1474	Cooling fan “low” (Tribute)- circuit malfunction
P1475	Cooling fan – circuit malfunction
P1476	Cooling fan – circuit malfunction
P1477	Cooling fan “medium” (Tribute)- circuit malfunction
P1479	Cooling fan “high” (Tribute)- circuit malfunction
P1480	Cooling fan – circuit malfunction
P1481	Cooling fan – circuit malfunction
P1485	Exhaust gas recirculation (EGR) valve – malfunction
P1486	Exhaust gas recirculation (EGR) valve – malfunction
P1487	Exhaust gas recirculation (EGR) valve – malfunction
P1496	Exhaust gas recirculation (EGR) valve'coil 1 – short/open circuit
P1497	Exhaust gas recirculation (EGR) valve coil 2 – short/open circuit
P1498	Exhaust gas recirculation (EGR) valve coil 3 – short/open circuit

P1499	Exhaust gas recirculation (EGR) valve coil 4 – short/open circuit
P1500	Vehicle speed sensor (VSS) -intermittent fault
P1501	Vehicle speed sensor (VSS) – out of self-test range
P1502	Vehicle speed sensor (VSS) – signal malfunction
P1504	Idle air control (IAC) system – circuit malfunction
P1505	Idle air control {IAC} system
P1506	Idle air control {IAC} system – overspeed error
P1507	Idle air control (IAC) system – underspeed error
P1508	Idle air control (IAC) valve 1 – short/open circuit
P1509	Idle air control (IAC) valve 2 – short/open circuit
P1510	Idle air control (IAC) system – malfunction
P1511	Idle air control (IAC) system – malfunction
P1512	Intake manifold air control – stuck close
P1513	Intake Manifold Runner Control Stuck Closed Bank 2
P1516	Intake manifold air control solenoid (Tribute 2005-+) – input error
P1517	Intake Manifold Runner Control Input Error Bank 2
P1518	Intake manifold air control – stuck open
P1519	Intake manifold air control – stuck closed
P1520	Intake manifold air control -circuit malfunction
P1521	Intake manifold air control solenoid 1 – short/open circuit
P1522	Intake manifold air control solenoid 2 – short/open circuit
P1523	Intake manifold air control solenoid – circuit malfunction
P1524	Charge air cooler bypass solenoid valve – malfunction
P1525	Supercharger air control solenoid (vacuum) – short/open circuit
P1526	Supercharger air control solenoid (vent) – short/open circuit
P1527	Bypass air solenoid valve – short/open circuit
P1528	Idle air control (IAC) system – malfunction

P1529	UC atmospheric balance air control solenoid valve – malfunction
P1532	Intake Manifold Communication Control Circuit Bank 2
P1537	Intake manifold air control solenoid, bank 1 – solenoid stuck open
P1538	Intake manifold air control solenoid, bank 2 – solenoid stuck open
P1540	Supercharger air control solenoid -short/open circuit
P1541	Intake Manifold Runner Control Circuit Range/Performance
P1549	Intake manifold air control solenoid – control circuit malfunction
P1550	Power steering pressure (PSP) switch – malfunction
P1562	Engine control module (ECM) – battery voltage low
P1565	Cruise control system
P1566	Transmission control module (TCM) – battery voltage low
P1567	Cruise control system
P1568	Cruise control system
P1569	Intake manifold air control – circuit low
P1570	Intake manifold air control – circuit high
P1572	Brake pedal position (BPP) switch – circuit malfunction
P1573	Throttle position (TP) sensor – no signal
P1574	Throttle position (TP) sensor – signal correlation
P1600	Engine control module (ECM) – KAM error
P1601	ECM to AT communication – signal error
P1602	Immobilizer control module/engine control module (ECM) – communication error
P1603	Engine control module (ECM) – incorrect immobilizer code
P1604	Engine control module (ECM) – incorrect immobilizer code
P1605	Engine control module (ECM) -keep alive test error
P1608	Engine control module (ECM) -knock function malfunction

P1609	Engine control module (ECM) -supply voltage
P1621	Engine control module (ECM) – incorrect immobilizer code after cranking
P1622	Engine control module (ECM) – incorrect immobilizer key code
P1623	Engine control module (ECM) – immobilizer read/write error, EEPROM damaged
P1624	Engine control module (ECM) – immobilizer communication error
P1627	ECM to ABSfTCS communication – signal error
P1628	ECM to ABSfTCS communication – signal error
P1630	Generator voltage – circuit malfunction
P1631	Generator voltage – no charge
P1632	Battery voltage monitor – circuit malfunction
P1633	Battery voltage – overcharging
P1634	Generator terminal B – open circuit
P1635	Engine control module (ECM)- processor fault
P1636	Engine control module (ECM) – communication error
P1639	Engine control module (ECM) -keep alive test error
P1641	Fuel pump – circuit malfunction
P1643	CAN Link ECM/TCM Circuit Network
P1645	Fuel pump – circuit malfunction
P1650	Power steering pressure (PSP) switch – out of self-test range
P1651	Power steering pressure (PSP) switch – input malfunction
P1652	Power steering pressure (PSP) switch – circuit malfunction
P1656	CAN data bus – circuit malfunction
P1657	CAN data bus – malfunction
P1674	Engine control module (ECM) – malfunction
P1684	Metering Oil Pump Position Sensor Circuit Malfunction

P1686	Rotor lubrication oil pump – low oil flow – circuit malfunction
P1687	Rotor lubrication oil pump – high oil flow – circuit malfunction
P1688	Rotor lubrication oil pump – self-test. – circuit malfunction
P1700	Transmission system – malfunction
P1701	Transmission solenoid malfunction – reverse gear engagement error
P1702	Transmission range (TR) sensor- circuit malfunction
P1703	Brake pedal position (BPP) switch – torque converter – out of self-test range
P1704	Transmission range (TR) sensor- malfunction
P1705	Transmission range (TR) sensor- out of self-test range
P1708	Clutch pedal position (CPP) switch – malfunction
P1709	Park/neutral position switch (except B series Pickup)- out of self-test range
P1711	Transmission fluid temperature (TFT) sensor – out of self-test range
P1712	Prevent The Differential Journal From Burning Or Seizure
P1713	Transmission fluid temperature (TFT) sensor- performance
P1714	AT- shift solenoid 1 -mechanical failure
P1715	AT – shift solenoid 2 – mechanical failure
P1716	AT – shift solenoid 3 – mechanical failure
P1717	AT – shift solenoid 4 – mechanical failure
P1718	Transmission fluid temperature (TFT) sensor- performance
P1719	Overdrive system – loss of signal
P1720	Vehicle speed sensor (VSS) – no signal
P1721	Shift solenoid (SS) 1 – malfunction
P1722	Shift solenoid (SS) 2- malfunction
P1723	Shift solenoid (SS) 3- malfunction
P1724	Shift solenoid (SS) 4 – malfunction

P1729	4x4 low range switch – switch error
P1735	Gear selection, 1-2- shift malfunction
P1736	Gear selection, 2-3 – shift malfunction
P1737	Torque converter clutch (TCC) solenoid valve – malfunction
P1738	Shift time error
P1740	Torque converter clutch (TCC) control – malfunction
P1741	Torque converter clutch (TCC) control – malfunction
P1742	Torque converter clutch (TCC) solenoid valve – malfunction
P1743	Torque converter clutch (TCC) solenoid valve – malfunction
P1744	Torque converter clutch (TCC) system – malfunction
P1745	AT- electronic pressure control solenoid – circuit malfunction
P1746	AT- electronic pressure.control solenoid – low input
P1747	AT – electronic pressure control solenoid – high input
P1748	AT – electronic pressure control solenoid – malfunction
P1749	AT – electronic pressure control solenoid system
P1751	AT – shift solenoid 1– open circuit
P1752	AT – shift solenoid 1– circuit malfunction
P1753	AT – shift solenoid 1– short circuit
P1754	AT- freewheeling clutch solenoid- circuit malfunction
P1756	AT – shift solenoid 2- open circuit
P1757	AT- shift solenoid 2- short circuit
P1760	AT – electronic pressure control solenoid – short to ground
P1761	AT – shift solenoid 3 – performance
P1762	Transmission – band failure
P1765	AT – gear 3-2 timing solenoid – malfunction
P1766	Shift Solenoid 'D' Performance
P1767	AT – torque converter clutch (TCC) solenoid- circuit malfunction
P1770	AT – overrun clutch solenoid valve – malfunction
P1771	AT – throttle position (TP) sensor – open circuit

P1772	AT – throttle position (TP) sensor- short circuit
P1775	AT – torque reduction signal 1 – signal problem
P1776	AT – torque reduction signal 2 – signal problem
P1777	AT – torque reduction signal (water temperature signal) – malfunction
P1780	Transmission control switch – out of self-test range
P1781	4×4 low range switch – out of self-test range
P1783	Transmission – over temperature condition
P1788	AT – 3-2 timing/coasting clutch solenoid – open circuit during self-test
P1789	AT- 3-2 timing/coasting clutch solenoid- short circuit during self-test
P1790	Throttle position (TP) sensor – malfunction
P1791	Throttle position (TP) sensor – circuit malfunction
P1792	Barometric pressure (BARO) sensor- circuit malfunction
P1793	Mass air flow (MAF) sensor/intake air temperature (IAT) sensor- circuit malfunction
P1794	Engine control module (ECM) – battery voltage low
P1795	Closed throttle position (CTP) switch – malfunction
P1797	Park/neutral position (PNP) switch/clutch pedal position (CPP) switch
P1798	Engine coolant temperature (ECT) sensor _: circuit intermittent
P1799	Torque converter clutch (TCC) solenoid valve – malfunction
P1824	Four wheel drive clutch relay – circuit malfunction
P1825	Four wheel drive clutch relay – open circuit
P1879	Four wheel drive hub lock solenoid – open circuit
P1900	Turbine shaft speed (TSS) sensor- intermittent
P1901	Turbine shaft speed (TSS) sensor- intermittent
P1919	Engine Coolant Temperature Signal
P1922	Fuel Additive Level Circuit Malfunction

P1924	Fuel Additive Level Circuit Low
P1925	Fuel Additive Level Circuit High
P1926	Fuel Additive Level Circuit Range/Performance
P1928	Fuel Additive Level Pump Control Circuit/Open
P1929	Fuel Additive Level Pump Control Circuit Performance
P1930	Fuel Additive Level Too Low/Empty
P1931	Fuel Additive Pump Control Circuit/Open
P1932	Fuel Additive Pump Control Circuit Performance
P1933	Fuel Additive Pump Control Circuit Low
P1934	Fuel Additive Pump Control Circuit High
P1935	Fuel Additive Level Low
P1936	Clutch Switch/Sensor Signal
P1937	Vehicle Speed Signal
P1938	Brake Switch/Sensor Signal
P1939	Clutch Switch/Sensor Signal
U1020	CAN data bus – AJC clutch _signal malfunction
U1039	CAN data bus – VSS signal malfunction
U1041	CAN data bus – VSS signal malfunction
U1051	CAN data bus – brake signal malfunction
U1131	CAN data bus -fuel system signal malfunction
U1147	CAN data bus – vehicle security signal malfunction
U1262	CAN data bus – circuit malfunction
U1451	CAN data bus – alarm system control module signal malfunction
U1900	CAN data bus – malfunction
U2064	Warning Indicator Requested by Another Control Module
U2243	CAN data bus – external environment signal malfunction

# mitsubishi



Codes	Definition
P1020	MIVEC Performance Problem Bank 1
P1021	Engine Oil Control Valve Circuit Bank 1
P1022	Variable valve timing control, bank 2 – performance problem
P1023	Valve timing control valve, bank 2 – circuit malfunction
P1025	Valve timing control valve, exhaust – circuit malfunction
P1100	Intake manifold air control actuator position sensor – circuit malfunction
P1101	Traction control vacuum solenoid – circuit malfunction
P1102	Traction control vent solenoid -circuit malfunction
P1103	Turbocharger (TC) wastegate actuator- malfunction
P1104	Turbocharger (TC) wastegate regulating valve – malfunction
P1105	Fuel pressure regulator control solenoid – malfunction
P1115	Engine coolant temperature (ECT) sensor/intake air temperature (IAT) sensor/outside air temperature sensor – signal variation
P1128	Closed Loop Fueling Not Achieved Bank 1
P1129	Closed Loop Fueling Not Achieved Bank 2
P1231	Automatic stability control – implausible signal
P1232	Throttle control fail safe mode – malfunction
P1233	Throttle position (TP) sensor A – malfunction
P1234	Throttle position (TP) sensor B – malfunction
P1235	Mass air flow (MAF) sensor – malfunction
P1236	Accelerator pedal position (APP) sensor B – malfunction
P1237	Accelerator pedal position (APP) sensor – malfunction
P1238	Mass air flow (MAF) sensor – malfunction
P1239	Crankshaft position (CKP) sensor – range/performance problem
P1240	Ignition timing error

P1241	Torque management system – range/performance problem
P1242	Engine RPM input – range/performance problem
P1243	Engine control module (ECM) – processor fault
P1244	Engine control module (ECM) – RAM error
P1245	Engine control module (ECM) – RAM error
P1246	Engine control module (ECM) – processor fault
P1247	A/T Plausibility
P1248	AWD Plausibility
P1294	Idle Air Control Motor Circuit
P1295	No 5 Volts To Throttle Position Sensor
P1296	No 5 Volts to MAP Sensor
P1297	No Change In MAP From Start To Run
P1300	Ignition timing adjustment – circuit malfunction
P1303	Misfiring Cylinder 3
P1320	Ignition timing – cold start emission control
P1390	Timing Belt Skipped 1 Tooth Or More
P1391	Intermittent Loose Of Camshaft Position Or Crankshaft Position Sensor
P1400	Manifold absolute pressure (MAP) sensor- circuit malfunction
P1404	EGR Position Sensor Rationality Closed
P1421	Clogged Or Dirty Catalyst
P1422	Temperature Sensor Has Failed
P1443	Evaporative emission (EVAP) canister purge system – control valve 2 circuit malfunction
P1486	EVAP Leak Monitor Pinched Hose Found
P1487	High Speed Radiator Fan Control Relay Condition
P1489	High Speed Radiator Fan Control Relay Condition
P1490	Low Speed Radiator Fan Control Relay Condition
P1492	Battery Temperature Sensor Voltage Too high

P1493	Battery Temperature Sensor Signal Too Low Condition
P1494	EVAP Ventilation Switch Or Mechanical Fault
P1495	EVAP Ventilation Solenoid Circuit
P1496	5 Volt Supply Output Too Low
P1500	Generator system – circuit malfunction
P1501	Vehicle Speed Sensor 1/2 Correlation Drive Wheels
P1502	Vehicle Speed Sensor 1/2 Correlation Non Drive Wheels
P1506	Idle air control (IAC) valve – RPM lower than expected
P1507	Idle air control (IAC) valve – RPM higher than expected
P1530	A/C control module – circuit malfunction
P1540	Radiator sensor – signal malfunction
P1541	Radiator sensor – signal malfunction
P1543	Radiator outlet engine temperature (ECT) – low input
P1544	Radiator outlet engine temperature (ECT) – high input
P1545	Radiator outlet engine temperature (ECT) – signal variation
P1546	Radiator outlet engine temperature (ECT) – signal variation
P1547	Radiator outlet engine temperature (ECT) – signal variation
P1564	Cruise control master switch – malfunction
P1571	Cruise control brake pedal switch – malfunction
P1572	Brake Pedal Switch Circuit Malfunction
P1573	Brake Switch Stuck Off
P1574	Engine control module (ECM) – malfunction
P1580	Radiator outlet engine temperature (ECT) – communication malfunction
P1593	Cruise control system, multi-function input A – circuit stuck
P1600	AT to ECM – signal failure
P1601	ECM to throttle control unit – communication malfunction
P1602	ECM to system LSI – communication malfunction
P1603	Engine control module (ECM) – battery supply voltage
P1603 3	Engine control module (ECM) – battery supply voltage

P1603	4	Engine control module (ECM) – RAM link error
P1604		Engine control module (ECM) – RAM read/write error
P1607		Engine control module (ECM) – shut down timer error
P1610		Immobilizer control module – circuit malfunction
P1637		Malfunction of Memory Backup
P1676		VIN not programmed or mismatch – ECM
P1696		Engine control module (ECM) – EEPROM error
P1697		Engine control module (ECM) – EEPROM error
P1715		Automatic transmission speed sensors A and 8 – malfunction
P1720		Vehicle speed sensor (VSS) – circuit malfunction
P1750		AT- torque converter/shift control and pressure control solenoid valves – malfunction
P1751		Automatic transmission – control relay malfunction
P1768		Transaxle Control Relays Always Off
P1791		Engine coolant temperature to TCM – signal malfunction
P1795		Throttle position (TP) switch to TCM – signal malfunction
P1820		Shift Fork Position Sensor 1 System Voltage Low Range Out
P1821		Shift Fork Position Sensor 1 System Voltage High Range Out
P1822		Shift Fork Position Sensor 1 System Output Range Out
P1823		Shift Fork Position Sensor 1 System Neutral
P1824		Shift Fork Position Sensor 1 System Poor Performance
P1825		Shift Fork Position Sensor 2 System Voltage Low Range Out
P1826		Shift Fork Position Sensor 2 System Voltage High Range Out
P1827		Shift Fork Position Sensor 2 System Output Range Out
P1828		Shift Fork Position Sensor 2 System Neutral
P1829		Shift Fork Position Sensor 2 System Poor Performance

P1831	Shift Fork Position Sensor 3 System Voltage Hihg Range Out
P1832	Shift Fork Position Sensor 3 System Voltage High Range Out
P1833	Shift Fork Position Sensor 3 System Neutral
P1834	Shift Fork Position Sensor 3 System Poor Performance
P1836	Shift Fork 1 Malfunction
P1844	Shift Fork 3 Malfunction
P1852	Shift Fork 1 Or 2 Opposite Direction Movement
P1855	Shift Fork 3 Or 4 Opposite Direction Movement
P1857	Odd Number Gear Axle Interlock
P1858	Even Number Gear Axle Interlock
P1859	Disengagement Too Late With Clutch 1
P1862	High Side 1 System Overcurrent
P1863	High Side 1 System Open Circuit
P1864	High Side 1 System Short To Power Supply
P1866	High Side 2 System Overcurrent
P1867	High Side 2 System Open Circuit
P1868	High Side 2 System
P1876	Gear Block 1st
P1877	Gear Block 2nd
P1878	Gear Block 3rd
P1879	Gear Block 4th
P1D37	AC Input Fuse Abnormal Or AC Power Supply Equipment Abnormal (Mitsubishi)
U1073	CAN data bus – bus off, malfunction detected
U1102	Antilock brake system (ABS)/traction control system (TCS), CAN data bus- time out
U1108	Instrumentation control module, CAN data bus – time out
U1109	Multifunction control module, CAN data bus – time out
U1110	AIC, CAN data bus – time out

U1117	Immobilizer control module, CAN data bus – time out
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# RAM



Codes	Definition
P1004	Intake manifold air control valve (short runner) - performance
<b>P1100 – P1199 (Fuel and air metering)</b>	
P1105	Turbocharger (TC) boost pressure actuator circuit malfunction
P1110	Decreased engine performance -high intake air temperature
P1115	Engine coolant temperature (ECT) sensor/intake air temperature (IAT) sensor/ outside air temperature sensor -signal variation
P1128	Heated oxygen sensor (H02S) 1, bank 1 signal error
P1129	Heated oxygen sensor (H02S) 1, bank 2 signal error
P113C	Oxygen sensor (O2S), control module
P1180	Decreased engine performance -high injection pump fuel temperature
P1192	Intake air temperature (IAT) sensor -voltage low
P1193	Intake air temperature (IAT) sensor -voltage high
P1194	Heated oxygen sensor (H02S), heater control -circuit malfunction
P1195	Heated oxygen sensor (H02S) 1, bank 1 slow response
P1196	Heated oxygen sensor (H02S) 1, bank 2 slow response
P1197	Heated oxygen sensor (M02S) 2, bank 1 slow response
<b>P1200 – P1299 (Fuel and air metering – injector circuit)</b>	
P1239	Engine oil temperature (EOT) -temperature too low
P125A	Power enable control circuit -voltage low
P125B	Power enable control circuit -voltage high
P1260	Engine control module, output driver -open circuit
P126B	Engine control module, output driver -short to ground
P126C	Engine control module, output driver -short to positive

P126E	Engine control module, output driver excessive current draw
P1272	A/C compressor clutch, circuit 2 -voltage low
P1273	A/C compressor clutch, circuit 2 -voltage high
P1274	A/C compressor clutch, circuit 2 -open circuit
P1275	A/C compressor clutch, circuit 2 –circuit malfunction
P1277	Starter motor control circuit -voltage low
P1278	Starter motor control circuit -voltage high
P1279	Starter motor control circuit -open circuit
P127A	Starter motor control circuit -circuit malfunction
P127C	Fuel pump, circuit 2 -voltage low
P127D	Fuel pump, circuit 2 -voltage high
P127E	Fuel pump, circuit 2 -open circuit
P1280	Fuel pump relay -circuit malfunction
P1281	Engine temperature -low for long period
P1282	Fuel pump relay
P1283	Engine control module (ECM) 1 -idle signal malfunction
P1284	Injection pump control module -battery voltage out of range
P1285	Injection pump control module relay -circuitmalfunction
P1286	Accelerator pedal position (APP) sensor -highinput
P1287	Injection pump control module/engine control module (ECM) 1 -supply voltage low
P1290	Compressed natural gas pressure sensorpressure high
P1291	Intake manifold heaters -no temperature rise
P1292	Compressed natural gas pressure sensor voltage high
P1293	Compressed natural gas pressure sensor voltage low
P1294	Idle speed control (ISC) system rpm lower/ higher than expected
P1295	Accelerator pedal position (APP) sensor -low input
P1296	Manifold absolute pressure (MAP) sensor no 5 volt supply

P1297	Manifold absolute pressure (MAP) sensor
P1298	System too lean -at prolonged wide open throttle
P1299	Manifold absolute pressure (MAP) sensor/ throttle position (TP) sensor
P129C	Powertrain control module (PCM), inverter control -circuit 2 high
P129E	Powertrain control module (PCM), inverter control-circuit 2 over-current
<b>P1300 – P1399 (Ignition system or misfire)</b>	
P1388	Engine control relay
P1389	Engine control relay
P1391	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor -intermittent signal
P1398	Engine control module (ECM) -misfire detection limit reached
P1399	Glow plug warming lamp -circuit malfunction
<b>P1400 – P1499 (Emission control)</b>	
P1404	Exhaust gas recirculation (EGR) valve position sensor malfunction
P1411	Cylinder cut-out solenoid 1 -malfunction
P1414	Cylinder cut-out solenoid 4 -malfunction
P1416	Cylinder cut-out solenoid 6 -malfunction
P1417	Cylinder cut-out solenoid 7 -malfunction
P141A	Exhaust gas temperature (EGT) sensor 1 & 2 -interchanged
P144E	, Exhaust gas recirculation (EGR) -circuit voltage low
P144F	Exhaust gas recirculation (EGR) -circuit voltage high
P1451	Diesel particulate filter (DPF) full
P1475	Engine control module (ECM) 1 -auxiliary 5 volt output high
P1476	Secondary air injection (AIR) system -insufficient flow detected
P1477	Secondary air injection (AIR) system excessive flow detected

P1478	Ambient/battery temperature sensor -range/ performance problem
P1478	Ambient/battery temperature sensor -range/ performance problem
P1479	Transmission cooling fan relay -circuit malfunction
P1484	Diesel particulate filter (DPF) temperature toohigh
P1486	Evaporative emission (EVAP) system -blockage detected
P1488	Engine control module (ECM) -auxiliary 5 volt output low
P1491	Engine coolant blower motor relay
P1492	Ambient/battery temperature sensor -voltage high
P1493	Ambient/battery temperature sensor -voltage low
P1494	Evaporative emission (EVAP) leak detection pump pressure switch
P1495	Evaporative emission (EVAP) leak detection pump solenoid
P1496	Engine control module (ECM) -5 volt output low
<b>P1500 – P1599 (Vehicle or idle speed control)</b>	
P1501	Vehicle over-speed condition -rear axle speed greater than front axle
P1502	Vehicle over-speed condition -front axle speed greater than rear axle
P1506	Crankcase pressure sensor range/performance
P1507	Crankcase pressure sensor range/performance
P1508	Crankcase pressure sensor range/performance
P150D	Cold start emission control -irregular idle speed
P1521	Engine oil sensor module -malfunction
P1572	Brake pedal position (BPP) switch -circuit malfunction
P1573	Brake pedal position (BPP) switch -circuit malfunction
P1593	Cruise control system, multi-function input AIB -circuit stuck
P1594	Alternator -voltage high

P1595	Cruise control
P1596	Cruise control master switch -high voltage
P1597	Cruise control master switch -low voltage
P1598	NC refrigerant pressure sensor -high input
P1599	AIC refrigerant pressure sensor -low input
<b>P1600 – P1699 (ECM – computer output circuit)</b>	
P1602	Engine control module (ECM) 1 not programmed
P1603	Engine control module (ECM) -RAM link error
P1604	Engine control module (ECM) -RAM read/writeerror
P1607	Engine control module (ECM) -shut down timer error
P1618	Engine control module (ECM) -primary 5 volt output erratic
P1628	Engine control module (ECM) -auxiliary 5 volt output erratic
P1652	CAN data bus -short circuit to ground
P1680	Clutch pedal position (CPP) switch -circuit malfunction
P1682	Altemator -voltage low
P1683	Cruise control
P1684	Engine control module (ECM) 1 -supply voltage disconnected within last 50 ignition switch ON-OFF cycles
P1685	Key not programmed into immobilizer control module
P1686	CAN data bus, immobilizer control module no signal
P1687	CAN data bus, instrumentation -no signal
P1688	Injection pump/injection pump control module -intemal fault
P1689	Injection pump control module communication to engine control module (ECM) 1 malfunction
P1690	Crankshaft position/injection pump camshaft position sensor -correlation
P1691	Injection pump -intemal fault

P1693	Engine control module (ECM)
P1694	CAN data bus, engine control module (ECM) no signal
P1695	CAN data bus, SCM -no signal
P1696	Engine control module (ECM) -EEPROM error
P1697	Engine control module (ECM) -EEPROM error
P1698	CAN data bus, engine control module (ECM) 2no signal
P1698	CAN data bus, transmission control module (TCM) no signal
<b>P1700 – P1799 (Transmission)</b>	
P1715	Restricted port in T3 range
P1719	Skip shift solenoid -circuit malfunction
P1736	Transmission -gear/input speed/output speed ratio error
P1740	Torque converter clutch (TCC)/overdrive solenoid-performance problem
P1756	Governor pressure not equal to target (35-40 PSI)
P1757	Governor pressure not equal to target -low pressure malfunction
P1762	Governor pressure sensor -incorrect signal
P1763	Governor pressure sensor -signal high
P1764	Govemor pressure sensor -signal low
P1765	Transmission system relay
P1776	Solenoid switch valve locked in UR (low/reverse) position
P1790	Fault immediately after shift
P1793	Torque reduction communication error
P1794	Transmission speed sensor -ground circuit
P1797	Manual shift overheat
<b>P1800 – P1899 (Transmission)</b>	
P1897	Engine control module (ECM) communication malfunction
P1899	Park/neutral position (PNP) switch -input circuit malfunction
<b>P1D00 – P1D99 (ISO/SAE Reserved)</b>	

P1DF3	ECU Not Initialized
P3400	Cylinder cut-out system, bank 1 -malfunction
P3401	Cylinder cut-out solenoid 1 -circuit malfunction
P3402	Cylinder cut-out solenoid 1 -malfunction
P3425	Cylinder cut-out solenoid 4 -circuit malfunction
P3426	Cylinder cut-out solenoid 4 -malfunction
P3441	Cylinder cut-out solenoid 6 -circuit malfunction
P3442	Cylinder cut-out solenoid 6 -malfunction
P3449	Cylinder cut-out solenoid 7 -circuit malfunction
P3450	Cylinder cut-out solenoid 7 -malfunction
P3497	Cylinder cut-out system, bank 2 -malfunction
U110A	Steering column function control module, serialcommunication -circuit malfunction
U110C	Fuel level, serial communication -circuit malfunction
U110E	Outside air temperature, serial communication -circuit malfunction
U110F	Fuel volume, serial communication -circuit malfunction
U1110	Vehicle speed, serial communication -circuit malfunction
U1111	Odometer mileage, serial communication - circuit malfunction
U1113	NC pressure sensor -communication malfunction
U1120	Wheel distance traveled, serial communication -circuit malfunction
U1403	Fuel level, serial communication -implausible signal
U1403	Fuel level, serial communication -implausible signal
U1411	Fuel volume, serial communication implausible signal
U1412	Vehicle speed, serial communication -implausible signal
U1413	Odometer mileage, serial communication implausible signal
U1417	LH front wheel, distance traveled -implausible signal
U1418	RH front wheel, distance traveled implausible signal

**U1421**

Fuel volume, serial communication implausible signal

# TOYOTA



<b>Codes</b>	<b>Definition</b>
P1010	Oil control valve/variable valve lift – LH bank – circuit malfunction
P1011	Oil control valve/variable valve lift – LH bank – open malfunction
P1012	Oil control valve/variable valve lift – LH bank – close malfunction
P101D	Heated oxygen sensor (HO2S) 1, bank 1 – heater circuit malfunction – stuck on
P1023	Camshaft Position Signal Output B Circuit
P102D	Heated oxygen sensor (HO2S) 2, bank 1 – heater circuit malfunction – stuck on
P1100	BARO Sensor Circuit Malfunction
P1115	Coolant Temperature Sensor Circuit For Heat Storage System
P1116	Coolant Temperature Sensor Circuit Stack for Coolant Heat Storage System
P1117	Coolant Temperature Sensor Circuit Stack for Coolant Heat Storage System
P1118	Coolant Temperature Sensor Circuit High for Coolant Heat Storage System
P1120	Accelerator pedal position (APP) sensor - circuit malfunction
P1121	Accelerator pedal position (APP) sensor - range/performance problem
P1123	Coolant Flow Control Valve Position Sensor Circuit High
P1125	Throttle actuator control (TAC) motor - circuit malfunction
P1126	Magnetic clutch - circuit malfunction
P1127	Throttle actuator control (TAC) power source - circuit malfunction
P1128	Throttle actuator control (TAC) lock - malfunction
P1129	Throttle actuator control (TAC) system - malfunction

P1130	Heated oxygen sensor (H02S)- LH front-range/performance malfunction
P1133	Heated oxygen sensor (H02S) – LH front- response malfunction
P1135	Heated oxygen sensor (H02S) – LH front – heater circuit malfunction
P1150	Air fuel sensor - California - RH front - performance malfunction
P1153	Air fuel sensor - California - RH front - response malfunction
P1155	Air fuel sensor - California - RH front - heater circuit malfunction
P1170	Port Injector Fuel Performance
P1200	Fuel pump (FP) relay/ECM - circuit malfunction
P1215	Electronic Driving Unit Circuit
P1222	Throttle Motor Circuit
P1228	Fuel Pump Malfunction
P1229	Fuel System Over Pressure
P1235	High Pressure Fuel Pump Circuit
P1236	High Pressure Fuel Pump Number 2 Circuit
P1276	Port Injector Circuit Number 1
P1277	Port Injector Circuit Number 2
P1278	Port Injector Circuit Number 3
P1279	Port Injector Circuit Number 4
P1300	Ignition control - circuit malfunction
P1305	Ignition control - cylinder No. 2 - circuit malfunction
P1310	Ignition control - cylinder No. 3 - circuit malfunction
P1315	Ignition control - cylinder No. 4 - circuit malfunction
P1320	Ignition control - cylinder No. 5 - circuit malfunction
P1325	Ignition control - cylinder No. 6 - circuit malfunction
P1330	Ignition control - cylinder No. 7 - circuit malfunction

P1335	Crankshaft position (CKP) sensor - circuit malfunction
P1340	Ignition control - cylinder No. 8 - circuit malfunction
P1341	Camshaft Position Sensor 'A' No Signal Over 600 RPM Bank 1 Sensor 2
P1342	Camshaft Position Sensor 'A' Low Input
P1343	Camshaft Position Sensor 'A' High Input
P1345	Variable valve timing sensor - LH bank - circuit malfunction
P1346	Variable valve timing sensor - LH bank - range/performance problem
P1349	Camshaft position (CMP) actuator system - malfunction
P1350	Variable valve timing sensor - RH bank - circuit malfunction
P1351	Variable valve timing sensor - RH bank - range/performance problem
P1354	Variable valve timing system - RH bank - malfunction
P1360	A' Camshaft Position Actuator Circuit Open/Low/High Bank 1
P1361	A' Camshaft Position Actuator Circuit Open/Low/High Bank 2
P1362	B' Camshaft Position Actuator Circuit Open/Low/High Bank 1
P1363	B' Camshaft Position Actuator Circuit Open/Low/High Bank 2
P1364	C' Camshaft Position Actuator Circuit Open/Low/High Bank 1
P1366	E' Camshaft Position Actuator Circuit Open/Low/High Bank 1
P1367	E' Camshaft Position Actuator Circuit Open/Low/High Bank 2
P1400	Throttle position (TP) sensor 2 - circuit malfunction

P1401	Throttle position (TP) sensor 2 - range/ performance problem
P1405	Turbocharger (TC) pressure sensor - circuit malfunction
P1406	Turbocharger (TC) pressure sensor - range/ performance problem
P1410	Exhaust gas recirculation (EGR) valve position sensor - malfunction
P1411	Exhaust gas recirculation (EGR) valve position sensor - range/performance problem
P1420	EVAP Canister Small Leak
P1421	EVAP Canister Gross Leak
P1422	Fuel Tank Small leak
P1423	Fuel Tank Gross Leak
P1436	Bypass Valve Malfunction
P1440	Secondary Air Injection Vacuum Switching Valve Circuit Malfunction Bank 1
P1441	Secondary Air Injection System Switching Valve No.2 Stuck Open Bank 1
P1442	Stuck Closed In Secondary Air Injection Vacuum Switching Valve Bank 1
P1443	Secondary Air Injection Vacuum Switching Valve Circuit Malfunction Bank 2
P1444	Secondary Air Injection System Switching Valve Stuck Open Bank 2
P1445	Secondary Air Injection System Switching Valve Stuck Close Bank 2
P1450	Fuel Tank Pressure Sensor
P1451	Fuel Tank Pressure Sensor Range/Performance
P1452	Fuel Tank Pressure Sensor Low Input
P1453	Fuel Tank Pressure Sensor High Input
P1455	Vapor Reducing Fuel Tank System Malfunction
P1500	Starter signal - circuit malfunction

P1510	Supercharger (SC) pressure control - circuit malfunction
P1511	Turbocharger (TC) pressure - too low
P1512	Turbocharger (TC) pressure - too high
P1520	Stop lamp switch - signal malfunction
P1550	Battery Current Sensor Circuit Range/Performance
P1551	Battery Current Sensor Circuit Low Input
P1552	Battery Current Sensor Circuit High Input
P1555	Reactor Temperature Sensor Circuit Low
P1556	Reactor Temperature Sensor Circuit High
P1557	DC/DC Converter Temperature Sensor Circuit
P1565	Cruise control switch - signal malfunction
P1566	Cruise Control Main Switch Circuit Malfunction
P1569	Brake system – malfunction
P1570	Radar Sensor Malfunction
P1572	Improper Aiming Of Radar Sensor Beam Axis
P1575	Cruise control/skid control warning buzzer – malfunction
P1578	Brake system – malfunction
P1589	Acceleration Sensor Learning Value
P1600	Engine control module (ECM) - supply voltage
P1601	Injector Correction Circuit Malfunction
P1602	Battery voltage monitor – malfunction
P1603	Engine Stall History
P1604	Startability Malfunction
P1605	Knock control - malfunction
P1607	Cruise Control Input Processor
P1613	Secondary air injection (AIR) – malfunction
P1614	Secondary air injection (AIR), bank 2 – malfunction
P1615	CAN data bus, cruise control module – communication error
P1616	CAN data bus, cruise control module – communication error

P1630	Traction control system - malfunction
P1631	Communication Error Between From ECM To VSC
P1633	Engine control module (ECM) - throttle actuator control (TAC) system - malfunction
P1645	Body control module - malfunction
P1647	Transmission control module (TCM) - system malfunction
P1652	Turbocharger (TC) 2 air control solenoid - circuit malfunction
P1653	SCV Circuit Malfunction
P1656	Oil control valve - circuit malfunction
P1658	Turbocharger (TC) wastegate regulating valve - circuit malfunction
P1661	Turbocharger (TC) 2 exhaust gas control valve - circuit malfunction
P1662	Exhaust bypass valve - circuit malfunction
P1663	Oil control valve/variable valve timing - RH bank - malfunction
P1690	Oil control valve/variable valve timing - malfunction
P1692	Variable valve timing - malfunction
P1693	Variable valve timing - malfunction
P1700	Output shaft speed (OSS) sensor
P1705	AT - direct clutch speed sensor
P1715	Rear wheel speed sensor(s) - malfunction
P1725	Input shaft speed (ISS) sensor/turbine shaft speed (TSS) sensor - circuit malfunction
P1730	Intermediate shaft speed sensor - AT
P1755	Torque converter clutch (TCC) solenoid - circuit malfunction
P1760	AT - pressure control shift solenoid
P1765	AT - pressure control shift solenoid
P1770	Differential lock solenoid - circuit malfunction

P1780	Park/neutral position (PNP) switch - circuit malfunction
P1781	Shift lever switch - malfunction
P1782	Transfer box low ratio switch – circuit malfunction
P1783	Transfer box neutral switch – circuit malfunction
P1790	Shift/timing solenoid
P1810	CAN data bus malfunction - malfunction
P1815	Shift control solenoid - malfunction
P1818	Shift control solenoid - circuit malfunction
P3193	Fuel Run Out

# VW



Codes	Definition
P1004	Torque Difference Cylinder 1: Limit Value Exceeded
P1005	Torque Difference Cylinder 2: Limit Value Exceeded
P1006	Torque Difference Cylinder 3: Limit Value Exceeded
P1007	Torque Difference Cylinder 4: Limit Value Exceeded
P1009	Air Mass Meter 1/2 Implausible Signal From Load Detection
P1018	Intake Manifold Runner Bank 2 Lower Limit Not Reached
P1020	Fuel pressure - control limit exceeded
P1023	Fuel pressure control valve - short to ground
P1024	Fuel pressure control valve - open circuit
P1025	Fuel pressure control valve - mechanical fault
P1026	Intake manifold air control solenoid - short to positive
P1027	Intake manifold air control solenoid - short to ground
P1028	Intake manifold air control solenoid - open circuit
P1029	Intake manifold air control valve position sensor - upper limit not reached
P1030	Intake manifold air control valve position sensor - lower limit not reached
P1031	Intake manifold air control valve position sensor - specification not attained
P1032	Nitrogen oxides (NOx) sensor - signal too high
P1033	Nitrogen oxides (NOx) sensor - signal too low
P1034	Nitrogen oxides (NOx) sensor - signal outside tolerance
P1035	Nitrogen oxides (NOx) sensor - range/ performance problem
P1036	Nitrogen oxides (NOx) heater sensor - short to positive
P1037	Nitrogen oxides (NOx) heater sensor - short to ground
P1038	Nitrogen oxides (NOx) heater sensor - open circuit
P1039	Injector 1, supply voltage - short circuit
P1040	Injector 1, supply voltage - circuit malfunction
P1041	Injector 2, supply voltage - short circuit

P1042	Injector 2, supply voltage - circuit malfunction
P1043	Injector 3, supply voltage - short circuit
P1044	Injector 3, supply voltage - circuit malfunction
P1045	Injector 4, supply voltage - short circuit
P1046	Injector 4, supply voltage - circuit malfunction
P1047	Camshaft position (CMP) actuator, exhaust - circuit malfunction
P1048	Camshaft position (CMP) actuator, exhaust - short to positive
P1049	Camshaft position (CMP) actuator, exhaust - short to ground
P1050	Camshaft position (CMP) actuator, exhaust - open circuit
P1055	Bank 1 Camshaft Adjustment Short To B+
P1056	Bank 1 Camshaft Adjustment Short To Ground
P1057	Bank 1 Camshaft Adjustment Short To Open Circuit
P1063	Fuel pressure - control limit not reached
P1064	Fuel pressure - mechanical fault
P1065	Fuel pressure - system deviation
P1066	Intake manifold air control solenoid - short to positive
P1067	Intake manifold air control solenoid - short to ground
P1068	Intake manifold air control solenoid - open circuit
P1069	Nitrogen oxides (NOx) sensor - heater control - short to ground
P1070	Nitrogen oxides (NOx) sensor - heater control - short to positive
P1071	Nitrogen oxides (NOx) sensor - heater control - incorrect signal
P1072	Nitrogen oxides (NOx) sensor - heater control - circuit malfunction
P1073	Mass Air Flow Sensor 2 Signal Too Small
P1074	Mass Air Flow Sensor 2 Signal Too Large

P1081	Exhaust Bank 3- Mixture Adaption Range 1 Lower Lean Limit Not Reached
P1082	Exhaust Bank 3- Mixture Adaption Range 2 Lower Lean Limit Not Reached
P1083	Exhaust Bank 3- Mixture Adaption Range 1 Lower Rich Limit Not Reached
P1084	Exhaust Bank 3- Mixture Adaption Range 2 Lower Rich Limit Not Reached
P1085	Exhaust Bank 4- Mixture Adaption Range 1 Lower Lean Limit Not Reached
P1086	Exhaust Bank 4- Mixture Adaption Range 2 Lower Lean Limit Not Reached
P1087	Exhaust Bank 4- Mixture Adaption Range 1 Lower Rich Limit Not Reached
P1088	Exhaust Bank 4- Mixture Adaption Range 2 Lower Rich Limit Not Reached
P1093	Mixture control (MC), malfunction
P1100	HO2S12 Sensor Circuit Voltage Too Low Air Leak
P1101	Heated oxygen sensor (HO2S) low voltage
P1102	Heated oxygen sensor (HO2S) heater short to positive
P1103	Heated oxygen sensor (HO2S) heater output too low
P1104	HO2S12 Sensor Circuit Voltage Too Low Air Leak
P1105	Heated oxygen sensor (HO2S) heater short to positive
P1106	Heated oxygen sensor (HO2S) low voltage/air leak
P1107	Heated oxygen sensor (HO2S) heater short to positive
P1108	O2 Sensor Circ.,Bank1-Sensor1Voltage too Low/Air Leak
P1109	HO2S22 Sensor Circuit Voltage Too Low Air Leak
P1110	Heated oxygen sensor (HO2S) heater short to positive
P1111	Heated oxygen sensor (HO2S) control, system too lean
P1112	Heated oxygen sensor (HO2S) control, system too rich
P1113	Heated oxygen sensor (HO2S) heater resistance too high
P1114	Heated oxygen sensor (HO2S) heater resistance too high

P1115	Heated oxygen sensor (HO2S) heater short to ground
P1116	Heated oxygen sensor (HO2S) heater open circuit
P1117	Heated oxygen sensor (HO2S) heater short to ground
P1118	Heated oxygen sensor (HO2S) heater open circuit
P1119	Heated oxygen sensor (HO2S) heater short to ground
P1120	Heated oxygen sensor (HO2S) heater open circuit
P1121	Heated oxygen sensor (HO2S) heater short to ground
P1122	Heated oxygen sensor (HO2S) heater open circuit
P1123	Long Term Fuel Trim Adjustment Bank 1 System Too Rich
P1124	Long Term Fuel Trim Adjustment Bank 1 System Too Lean
P1125	Long Term Fuel Trim Adjustment Bank 2 System Too Rich
P1126	Long Term Fuel Trim Adjustment Bank 2 System Too Lean
P1127	Long term fuel trim, system too rich
P1128	Long term fuel trim, system too lean
P1129	Long term fuel trim, system too rich
P1130	Long term fuel trim, system too lean
P1131	HO2S21 Inner Resistance Too Large
P1132	Heated oxygen sensor (HO2S) heater control - circuit high
P1133	Heated oxygen sensor (HO2S) heater control - circuit low
P1134	HO2S Heater Circuit- Bank 1 & 2 Sensor 2 Short To B+
P1135	HO2S Heater Circuit- Bank 1 & 2 Sensor 2 Electrical Malfunction
P1136	Long term fuel trim, idling, system too lean
P1137	Long term fuel trim, idling, system too rich
P1138	Long term fuel trim, idling, system too lean
P1139	Long term fuel trim, idling, system too rich
P1140	Heated oxygen sensor (HO2S) heater resistance too high
P1141	Load calculation - implausible value
P1142	Load calculation - too low
P1143	Load calculation - too high

P1144	Mass air flow (MAF) sensor - open circuit/ short to ground
P1145	Mass air flow (MAF) sensor - short to positive
P1146	Mass air flow (MAF) sensor - supply voltage
P1147	Heated oxygen sensor lambda regulation, system too lean
P1148	Heated oxygen sensor lambda regulation, system too rich
P1149	Heated oxygen sensor (HO2S) implausible lambda control value
P1150	Heated oxygen sensor (HO2S) implausible lambda control value
P1151	Long term fuel trim below lean limit
P1152	Long term fuel trim below lean limit
P1153	Heated oxygen sensor (HO2S) interchanged
P1154	Manifold Switch Over Malfunction
P1155	Manifold absolute pressure (MAP) sensor - short to positive
P1156	Manifold absolute pressure (MAP) sensor - open circuit/short to ground
P1157	Manifold absolute pressure (MAP) sensor - supply voltage
P1158	Manifold absolute pressure (MAP) sensor - range/performance problem
P1159	Mass air flow (MAF) sensor, implausible ratio
P1160	Intake air temperature (IAT) sensor - short to ground
P1161	Intake air temperature (IAT) sensor - open circuit/short to positive
P1162	Fuel temperature sensor - short to ground
P1163	Fuel temperature sensor - open circuit/short to positive
P1164	Fuel temperature sensor - range/ performance problem
P1165	Long term fuel trim above rich limit
P1166	Long term fuel trim above rich limit
P1167	Mass Air Flow Sensor 2 Unplausible Signal
P1171	Throttle motor position sensor 2 - range/ performance problem

P1172	Throttle motor position sensor 2 - low input
P1173	Throttle motor position sensor 2 - high input
P1174	Fuel measurement system, injection timing incorrect
P1175	Pre-Injection Switched Off
P1176	Lambda correction after catalyst, control limit reached
P1177	Lambda correction after catalyst, control limit reached
P1178	Heated oxygen sensor (HO2S) pump current - open circuit
P1179	Heated oxygen sensor (HO2S) pump current - short to ground
P1180	Heated oxygen sensor (HO2S) pump current - short to positive
P1181	Heated oxygen sensor (HO2S) reference voltage - open circuit
P1182	Heated oxygen sensor (HO2S) reference voltage - short to ground
P1183	Heated oxygen sensor (HO2S) reference voltage - short to positive
P1184	Linear Oxygen Sensor Common Ground Open Circuit
P1185	Linear Oxygen Sensor Common Ground Short To Ground
P1186	Linear Oxygen Sensor Common Ground Short To Positive
P1187	Heated oxygen sensor (HO2S) circuit malfunction
P1188	Linear O2 Sensor Compensation Resistor Short to Ground
P1189	Linear O2 Sensor Compensation Resistor Short to B+
P1190	Heated oxygen sensor (HO2S) reference voltage - range/performance problem
P1191	Heated oxygen sensor (HO2S) interchanged
P1192	Fuel pressure sensor - supply voltage
P1193	Fuel pressure sensor - open circuit/short to positive
P1194	Fuel pressure control valve - short to positive
P1196	Heated oxygen sensor (HO2S) heater circuit malfunction
P1197	Heated oxygen sensor (HO2S) heater circuit malfunction

P1198	Heated oxygen sensor (HO2S) heater circuit malfunction
P1199	Heated oxygen sensor (HO2S) heater circuit malfunction
P1200	Turbocharger Recirculating Valve Mechanical Malfunction
P1201	Injector 1 - circuit malfunction
P1202	Injector 2 - circuit malfunction
P1203	Injector 3 - circuit malfunction
P1204	Injector 4 - circuit malfunction
P1205	Injector 5 - circuit malfunction
P1206	Injector 6 - circuit malfunction
P1207	Fuel Injector Circuit Cylinder 7 Electrical Malfunction
P1208	Fuel Injector Circuit Cylinder 8 Electrical Malfunction
P1209	Intake Valves For Cylinder Shut Off Short Circuit To Ground
P1210	Intake Valves For Cylinder Shut Off Short to B+
P1211	Intake Valves For Cylinder Shut Off Open Circuit
P1213	Injector 1 - short to positive
P1214	Injector 2 - short to positive
P1215	Injector 3 - short to positive
P1216	Injector 4 - short to positive
P1217	Injector 5 - short to positive
P1218	Injector 6 - short to positive
P1219	Injector Circuit Cylinder 7 Short To Positive
P1220	Injector Circuit Cylinder 8 Short To Positive
P1221	Cylinder Shut Off Exhaust Valves Short Circuit To Ground
P1222	Cylinder Shut Off Exhaust Valves Short To B+
P1223	Cylinder Shut Off Exhaust Valves Open Circuit
P1225	Injector 1 - short to ground
P1226	Injector 2 - short to ground
P1227	Injector 3 - short to ground
P1228	Injector 4 - short to ground
P1229	Injector 5 - short to ground

P1230	Injector 6 - short to ground
P1231	Injector Circuit Cylinder 7 Short To Ground
P1232	Injector Circuit Cylinder 8 Short To Ground
P1237	Injector 1 - open circuit
P1238	Injector 2 - open circuit
P1239	Injector 3 - open circuit
P1240	Injector 4 - open circuit
P1241	Injector 5 - open circuit
P1242	Injector 6 - open circuit
P1243	Injector Circuit Open Cylinder 7
P1244	Injector Circuit Open Cylinder 8
P1245	Injector needle lift sensor - short to ground
P1246	Injector needle lift sensor - range/ performance problem
P1247	Injector needle lift sensor - open circuit/ short to positive
P1248	Start of injection - control difference
P1249	Fuel Consumption Signal Electrical Fault In Circuit
P1250	Fuel tank level sensor - low input
P1251	Fuel injection timing solenoid - short to positive
P1252	Fuel injection timing solenoid - open circuit/ short to ground
P1253	Instrument panel, fuel consumption signal - short to ground
P1254	Instrument panel, fuel consumption signal - short to positive
P1255	Engine coolant temperature (ECT) sensor - short to ground
P1256	Engine coolant temperature (ECT) sensor - open circuit/short to positive
P1257	Engine Coolant System Valve Open
P1258	Engine Coolant System Valve Short To B+
P1259	Engine Coolant System Valve Short To Ground
P1260	Injector 1 - implausible signal

P1261	Injector 1 - control limit exceeded
P1262	Injector 1 - control limit not reached
P1263	Injector 2 - implausible signal
P1264	Injector 2 - control limit exceeded
P1265	Injector 2 - control limit not reached
P1266	Injector 3 - implausible signal
P1267	Injector 3 - control limit exceeded
P1268	Injector 3 - control limit not reached
P1269	Injector 4 - implausible signal
P1270	Injector 4 - control limit exceeded
P1271	Injector 4 - control limit not reached
P1278	Fuel metering solenoid - short to positive
P1279	Fuel metering solenoid - open circuit/short to ground
P1280	Fuel Injection Air Control Valve Circuit Flow Too Low
P1281	Fuel metering solenoid - short to ground
P1282	Fuel metering solenoid - open circuit
P1283	O2 Sensor Heating Circ.,Bank1-Sensor1 Short to B+
P1284	Fuel Injection Air Control Valve Circuit Open
P1285	Fuel Injection Air Control Valve Circuit Short To Ground
P1286	Fuel Injection Air Control Valve Circuit Short To B+
P1287	Turbocharger (TC) bypass valve - open circuit
P1288	Turbocharger (TC) bypass valve - short to positive
P1289	Turbocharger (TC) bypass valve - short to ground
P1290	Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input
P1291	Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input
P1292	Engine coolant thermostat - open circuit
P1293	Engine coolant thermostat - short to positive
P1294	Engine coolant thermostat - short to ground
P1295	Turbocharger (TC), bypass - flow malfunction

P1296	Engine cooling system - malfunction
P1297	Turbocharger (TC)/throttle valve, hose connection - pressure loss
P1299	Fuel metering solenoid - circuit malfunction
P1300	Random/multiple cylinder(s) - misfire detected
P1319	Knock Sensor 1 Circuit Short To Ground
P1320	Knock Sensor 2 Circuit Short To Ground
P1321	Knock Sensor 3 Signal Too Low
P1322	Knock Sensor 3 Signal Too High
P1323	Knock Sensor 4 Signal Too Low
P1324	Knock Sensor 4 Signal Too Low
P1325	Knock control, cylinder 1 - control limit reached
P1326	Knock control, cylinder 2 - control limit reached
P1327	Knock control, cylinder 3 - control limit reached
P1328	Knock control, cylinder 4 - control limit reached
P1329	Knock control, cylinder 5 - control limit reached
P1330	Knock control, cylinder 6 - control limit reached
P1331	Cylinder 7 Knock Control Limit Attained
P1332	Cylinder 8 Knock Control Limit Attained
P1335	Engine torque control - limit reached
P1336	Engine torque monitoring - control limit exceeded
P1337	Camshaft position (CMP) sensor, short to ground
P1338	Camshaft position (CMP) sensor, open circuit/short to positive
P1339	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - interchanged
P1340	Camshaft position (CMP) crankshaft position (CKP) sensor - out of sequence
P1341	Ignition amplifier, primary circuit 1 - short to ground
P1342	Ignition amplifier, primary circuit 1 - short to positive
P1343	Ignition amplifier, primary circuit 2 - short to ground

P1344	Ignition amplifier, primary circuit 2 - short to positive
P1345	Ignition amplifier, primary circuit 3 - short to ground
P1346	Ignition amplifier, primary circuit 3 - short to positive
P1347	Camshaft position (CMP) crankshaft position (CKP) sensor - out of sequence
P1348	Ignition amplifier, primary circuit 1 - open circuit
P1349	Ignition amplifier, primary circuit 2 - open circuit
P1350	Ignition amplifier, primary circuit 3 - open circuit
P1351	Camshaft position (CMP) sensor, range/performance problem
P1354	Fuel quantity adjuster position sensor
P1355	Ignition coil/amplifier, cylinder 1 - open circuit
P1356	Ignition coil/amplifier, cylinder 1 - short to positive
P1357	Ignition coil/amplifier, cylinder 1 - short to ground
P1358	Ignition coil/amplifier, cylinder 2 - open circuit
P1359	Ignition coil/amplifier, cylinder 2 - short to positive
P1360	Ignition coil/amplifier, cylinder 2 - short to ground
P1361	Ignition coil/amplifier, cylinder 3 - open circuit
P1362	Ignition coil/amplifier, cylinder 3 - short to positive
P1363	Ignition coil/amplifier, cylinder 3 - short to ground
P1364	Ignition coil/amplifier, cylinder 4 - open circuit
P1365	Ignition coil/amplifier, cylinder 4 - short to positive
P1366	Ignition coil/amplifier, cylinder 4 - short to ground
P1367	Ignition coil/amplifier, cylinder 5 - open circuit
P1368	Ignition coil/amplifier, cylinder 5 - short to positive
P1369	Ignition coil/amplifier, cylinder 5 - short to ground
P1370	Ignition coil/amplifier, cylinder 6 - open circuit
P1371	Ignition coil/amplifier, cylinder 6 - short to positive
P1372	Ignition coil/amplifier, cylinder 6 - short to ground
P1373	Cylinder 7 Ignition Circuit Open
P1374	Cylinder 7 Ignition Circuit Short To B+

P1375	Cylinder 7 Ignition Circuit Short To Ground
P1376	Cylinder 8 Ignition Circuit Open
P1377	Cylinder 8 Ignition Circuit Short To B+
P1378	Cylinder 8 Ignition Circuit Short To Ground
P1385	Engine control module (ECM) - defective
P1386	Engine control module (ECM), knock control - defective
P1387	Engine control module (ECM), BARO sensor - defective
P1388	Engine control module (ECM), ETS - defective
P1389	Engine Control Module 2 Defective
P1391	Camshaft position (CMP) short to ground
P1392	Camshaft position (CMP) open circuit/short to positive
P1393	Ignition amplifier, primary circuit 1 - circuit malfunction
P1394	Ignition amplifier, primary circuit 2 - circuit malfunction
P1395	Ignition amplifier, primary circuit 3 - circuit malfunction
P1396	Engine Speed Sensor Missing Tooth
P1397	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - control limit reached
P1398	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to ground
P1399	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to positive
P1400	Exhaust gas recirculation (EGR) valve/ solenoid, circuit malfunction
P1401	Exhaust gas recirculation (EGR) valve/ solenoid, short to ground
P1402	Exhaust gas recirculation (EGR) valve/ solenoid, short to positive
P1403	Exhaust gas recirculation (EGR) system - control difference
P1404	Exhaust gas recirculation (EGR) system - basic setting
P1406	EGR Temperature Sensor Signal Range Performance

P1407	Exhaust gas recirculation temperature (EGRT) sensor - low input
P1408	Exhaust gas recirculation temperature (EGRT) sensor - high input
P1409	Evaporative emission (EVAP) canister purge valve - circuit malfunction
P1410	Evaporative emission (EVAP) canister purge valve - short to positive
P1411	Secondary air injection (AIR) system, insufficient flow detected
P1412	EGR Differential Pressure Sensor Signal Too Low
P1413	EGR Differential Pressure Sensor Signal Too High
P1414	Secondary air injection (AIR) system, leak detected
P1415	Exhaust gas recirculation (EGR) valve position sensor - lower limit exceeded
P1416	Exhaust gas recirculation (EGR) valve position sensor - upper limit exceeded
P1417	Fuel Level Sensor Circuit Signal Too Low
P1418	Fuel Level Sensor Circuit Signal Too High
P1420	Secondary air injection (AIR) valve/ solenoid - circuit malfunction
P1421	Secondary air injection (AIR) valve/ solenoid - short to ground
P1422	Secondary air injection (AIR) valve/ solenoid - short to positive
P1423	Secondary air injection (AIR) system, insufficient flow detected
P1424	Secondary air injection (AIR) system, leak detected
P1425	Evaporative emission (EVAP) canister purge valve - short to ground
P1426	Evaporative emission (EVAP) canister purge valve - open circuit

P1427	Vacuum pump, brakes - short to positive
P1428	Vacuum pump, brakes - short to ground
P1429	Vacuum pump, brakes - open circuit
P1430	Vacuum pump, brakes - open circuit/short to positive
P1431	Vacuum pump, brakes - open circuit/short to ground
P1432	Secondary air injection (AIR) valve/ solenoid - open circuit
P1433	Secondary air injection (AIR) pump relay - open circuit
P1434	Secondary air injection (AIR) pump relay - short to positive
P1435	Secondary air injection (AIR) pump relay - short to ground
P1436	Secondary air injection (AIR) pump relay - circuit malfunction
P1437	Exhaust gas recirculation (EGR) valve/ solenoid, short to positive
P1438	Exhaust gas recirculation (EGR) valve/ solenoid, open circuit/short to ground
P1439	Exhaust gas recirculation (EGR) valve position sensor - basic setting
P1440	Exhaust gas recirculation (EGR) valve - open circuit
P1441	Exhaust gas recirculation (EGR) valve/ solenoid, open circuit/short to ground
P1442	Exhaust gas recirculation (EGR) valve position sensor - high input
P1443	Exhaust gas recirculation (EGR) valve position sensor - low input
P1444	Exhaust gas recirculation (EGR) valve position sensor - range/performance problem
P1445	Catalyst Temperature Sensor 2 Circuit Range/Performance
P1446	Catalyst Temperature Circuit Short To Ground
P1447	Catalyst Temperature Circuit Open/Short to B+
P1448	Catalyst Temperature Sensor 2 Circuit Short to Ground
P1449	Catalyst Temperature Sensor 2 Circuit Open/Short to B+
P1450	Secondary air injection (AIR) system - short to positive

P1451	Secondary air injection (AIR) system - short to ground
P1452	Secondary air injection (AIR) system - open circuit
P1453	Exhaust gas recirculation temperature (EGRT) open circuit/short to positive
P1454	Exhaust gas recirculation temperature (EGRT) short to ground
P1455	Exhaust gas recirculation temperature (EGRT) range/performance problem
P1456	Exhaust gas recirculation temperature (EGRT) control, control limit reached
P1457	Exhaust gas recirculation temperature (EGRT) open circuit/short to positive
P1458	Exhaust gas recirculation temperature (EGRT) short to ground
P1459	Exhaust gas recirculation temperature (EGRT) range/performance problem
P1460	Exhaust gas recirculation temperature (EGRT) control, control limit reached
P1461	Exhaust gas recirculation temperature (EGRT) control, range/ performance problem
P1462	Exhaust gas recirculation temperature (EGRT) control, range/ performance problem
P1465	Additive Pump Short Circuit to B+
P1466	Additive Pump Open/Short to Ground
P1467	EVAP Canister Purge Solenoid Valve Short Circuit to B+
P1468	EVAP Canister Purge Solenoid Valve Short Circuit to Ground
P1469	EVAP Canister Purge Solenoid Valve Open Circuit
P1470	EVAP Control System LDP Circuit Electrical Malfunction
P1471	EVAP Control System LDP Circuit Short to Positive
P1472	EVAP Control System LDP Circuit Short To Ground
P1473	EVAP Control System LDP Open Circuit

P1474	EVAP Canister Purge Solenoid Valve Electrical Malfunction
P1475	EVAP Control System LDP Malfunction/Signal Circuit Open
P1476	EVAP Control System LDP Malfunction/Insufficient Vacuum
P1477	EVAP Control System LDP Malfunction
P1478	EVAP Control System LDP Clamped Tube Detected
P1479	Vacuum system, brakes - mechanical fault
P1482	Secondary Air Injection Pump Relay 2 Short To B+
P1483	Secondary Air Injection Pump Relay 2 Short To Ground
P1484	Secondary Air Injection Pump Relay 2 Electrical Circuit Malfunction
P1489	EVAP Canister Purge Regulator Valve 2 Short To B+
P1490	EVAP Canister Purge Regulator Valve 2 Short To Ground
P1491	EVAP Canister Purge Regulator Valve 2 Open Circuit
P1493	Low Pressure Pump For Brake Power Too Low
P1497	Secondary Air System Bank 3 Flow Fault
P1498	Secondary Air System Bank 4 Flow Fault
P1500	Fuel pump relay - circuit malfunction
P1501	Fuel pump relay - short to ground
P1502	Fuel pump relay - short to positive
P1503	Alternator load signal
P1504	Intake system - leak detected
P1505	Closed throttle position (CTP) switch - does not close
P1506	Closed throttle position (CTP) switch - does not open
P1507	Idle speed control (ISC) - lower limit reached
P1508	Idle speed control (ISC) - upper limit reached
P1509	Idle air control (IAC) valve - circuit malfunction
P1510	Idle air control (IAC) valve - short to positive
P1511	Intake manifold air control solenoid 1 - current circuit
P1512	Intake manifold air control solenoid 1 - short to positive
P1513	Intake manifold air control solenoid 2 - short to positive

P1514	Intake manifold air control solenoid 2 - short to ground
P1515	Intake manifold air control solenoid 1 - short to ground
P1516	Intake manifold air control solenoid 1 - open circuit
P1517	Engine control relay - circuit malfunction
P1518	Engine control relay - short to positive
P1519	Camshaft position (CMP) control, malfunction
P1520	Intake manifold air control solenoid 2 - open circuit
P1521	Intake Manifold Changeover Valve 2 Circuit Electrical Malfunction
P1522	Camshaft position (CMP) control, malfunction
P1523	SRS crash signal received
P1524	Fuel pump relay - open circuit/short to ground
P1525	Camshaft position (CMP) actuator, circuit malfunction
P1526	Camshaft position (CMP) actuator, short to positive
P1527	Camshaft position (CMP) actuator, short to ground
P1528	Camshaft position (CMP) actuator, open circuit
P1529	Camshaft position (CMP) actuator - short to positive
P1530	Camshaft position (CMP) actuator - short to ground
P1531	Camshaft position (CMP) actuator - open circuit
P1532	Idle control - lean running speed below specification
P1533	Camshaft position (CMP) actuator, circuit malfunction
P1534	Camshaft position (CMP) actuator, short to positive
P1535	Camshaft position (CMP) actuator, short to ground
P1536	Camshaft position (CMP) actuator, open circuit
P1537	Fuel shut-off solenoid - malfunction
P1538	Fuel shut-off solenoid - open circuit/short to ground
P1539	Clutch pedal position (CPP) switch - range/ performance problem
P1540	Vehicle speed signal - high input
P1541	Fuel pump relay - open circuit
P1542	Throttle motor position range/ performance problem

P1543	Throttle motor position low input
P1544	Throttle motor position high input
P1545	Throttle valve control - malfunction
P1546	Turbocharger (TC) wastegate regulating valve - short to positive
P1547	Turbocharger (TC) wastegate regulating valve - short to ground
P1548	Turbocharger (TC) wastegate regulating valve - open circuit
P1549	Turbocharger (TC) wastegate regulating valve - open circuit/short to ground
P1550	Turbocharger (TC) pressure - control difference
P1551	Barometric Pressure Sensor Circuit Short to B+
P1552	Barometric Pressure Sensor Circuit Open/Short to Ground
P1553	Manifold absolute pressure (MAP) sensor/ barometric pressure (BARO) sensor - range/performance problem
P1554	Throttle control unit - basic setting conditions
P1555	Turbocharger (TC) pressure - upper limit exceeded
P1556	Turbocharger (TC) pressure - control limit not reached
P1557	Turbocharger (TC) pressure - control limit exceeded
P1558	Idle speed control (ISC) actuator/throttle motor - circuit malfunction
P1559	Throttle control unit - basic setting malfunction
P1560	Maximum engine RPM exceeded
P1561	Fuel quantity adjuster - control difference
P1562	Fuel quantity adjuster - upper stop value
P1563	Fuel quantity adjuster - lower stop value
P1564	Throttle control unit - voltage low during basic setting
P1565	Throttle control unit - lower stop not reached
P1566	AC compressor, load signal - implausible signal

P1567	Load Signal from A/C Compressor No Signal
P1568	Throttle control unit - mechanical fault
P1569	Cruise control master switch
P1570	Engine control module (ECM) - immobilizer active
P1571	Engine mounting control solenoid, short to positive
P1572	Engine mounting control solenoid, short to ground
P1573	Engine mounting control solenoid, open circuit
P1574	O2 Sensor Heating Circ.,Bank1-Sensor1 Output too Low
P1575	Engine mounting control solenoid, short to positive
P1576	Engine mounting control solenoid, short to ground
P1577	Engine mounting control solenoid, open circuit
P1578	Bank1-Sensor2 Voltage too Low/Air Leak
P1579	Throttle control unit - basic setting
P1580	Throttle motor, circuit malfunction
P1581	Throttle control unit - basic setting
P1582	Idle speed adaptation - limit reached
P1583	O2 Sensor Heating Circ.,Bank1-Sensor2 Short to B+
P1584	O2 Sensor Circ.,Bank2-Sensor1 Voltage too Low/Air Leak
P1585	O2 Sensor Heating Circ.,Bank2-Sensor1 Short to B+
P1586	Engine mounting control solenoid, short to positive
P1587	O2 Sensor Heating Circ.,Bank2-Sensor1 Output too Low
P1588	O2 Sensor Circ.,Bank2-Sensor2 Voltage too Low/Air Leak
P1589	AC/heater air temperature control switch - short to ground
P1590	AC/heater air temperature control switch - open circuit
P1592	Barometric pressure (BARO) sensor/ manifold absolute pressure (MAP) sensor - implausible ratio
P1593	Altitude adaption - signal outside tolerance
P1599	Idle control - lean running speed above specification
P1600	Engine control module (ECM) - supply voltage low from ignition switch

P1601	Engine control module (ECM) - supply voltage
P1602	Engine control module (ECM) - supply voltage low from battery
P1603	Engine control module (ECM) - defective
P1604	Engine control module (ECM) - defective
P1605	O2 Sensor Heating Circ.,Bank2-Sensor2 Short to B+
P1606	Rough road signal - circuit malfunction
P1607	O2 Control (Bank 1) System too lean
P1608	Power steering pressure (PSP) switch - circuit malfunction
P1609	Engine control module (ECM) - crash switch-off triggered
P1610	Engine control module (ECM) - defective
P1611	Malfunction indicator lamp (MIL) - short to ground
P1612	Engine control module (ECM) - coding
P1613	Malfunction indicator lamp (MIL) - open circuit/short to positive
P1614	O2 Control (Bank 1) System too rich
P1615	Engine oil temperature (EOT) sensor - range/performance problem
P1616	Glow plug warning lamp - short to positive
P1617	Glow plug warning lamp - open circuit/short to ground
P1618	Glow plug relay - short to positive
P1619	Glow plug relay - open circuit/short to ground
P1620	Instrument panel, ECT signal - open circuit/ short to positive
P1621	Instrument panel, ECT signal - short to ground
P1622	Instrument panel, ECT signal - implausible signal
P1623	CAN data bus - no signal
P1624	Malfunction indicator lamp (MIL) - request signal active
P1625	CAN data bus, TCM - incorrect signal
P1626	CAN data bus, TCM - no signal
P1627	Bank1-Sensor1 Internal Resistance too High

P1628	Bank1-Sensor2 Internal Resistant too High
P1629	CAN data bus, cruise control - no signal
P1630	Accelerator pedal position (APP) low input
P1631	Accelerator pedal position (APP) high input
P1632	Accelerator pedal position (APP) sensor - supply voltage
P1633	Accelerator pedal position (APP) low input
P1634	Accelerator pedal position (APP) high input
P1635	CAN data bus, AC - no signal
P1636	CAN data bus, SRS - no signal
P1637	CAN data bus, electronic CE - no signal
P1638	O2 Sensor Heater Circ.,Bank1-Sensor1 Short to Ground
P1639	Accelerator pedal position (APP) sensor 1/2 - range/performance problem
P1640	Engine control module (ECM) - defective
P1641	O2 Sensor Heater Circ.,Bank1-Sensor1 Open
P1642	SRS control module - system malfunction
P1643	O2 Sensor Heater Circ.,Bank1-Sensor2 Short to Ground
P1644	O2 Sensor Heater Circ.,Bank1-Sensor2 Open
P1645	CAN data bus, 4WD - no signal
P1646	O2 Sensor Heater Circ.,Bank2-Sensor1 Short to Ground
P1647	O2 Sensor Heater Circ.,Bank2-Sensor1 Open
P1648	CAN data bus - defective
P1649	CAN data bus, ABS - no signal
P1650	CAN data bus, instrumentation - no signal
P1651	O2 Sensor Heater Circ.,Bank2-Sensor2 Short to Ground
P1652	Transmission control module (TCM) - system malfunction
P1653	ABS control module - system malfunction
P1654	Instrumentation control module - system malfunction
P1655	O2 Sensor Heater Circ.,Bank2-Sensor2 Open
P1656	AC signal - short to ground

P1657	AC signal - short to positive
P1658	CAN data bus, cruise control - incorrect signal
P1659	Engine coolant blower motor, speed 1 - short to positive
P1660	Engine coolant blower motor, speed 1 - short to ground
P1661	Engine coolant blower motor, speed 2 - short to positive
P1662	Engine coolant blower motor, speed 2 - short to ground
P1663	Injector, activation - short to positive
P1664	Injector, activation - current circuit
P1665	Injector - mechanical fault
P1666	Injector 1 - current circuit
P1667	Injector 2 - current circuit
P1668	Injector 3 - current circuit
P1669	Injector 4 - current circuit
P1672	Engine coolant blower motor, speed 1 - open circuit/short to ground
P1674	CAN data bus, instrumentation - incorrect signal
P1676	ETS warning lamp - circuit malfunction
P1677	ETS warning lamp - short to positive
P1678	ETS warning lamp - short to ground
P1679	ETS warning lamp - open circuit
P1680	Limp-home mode - active
P1681	Engine control module (ECM) - programming incomplete
P1682	CAN data bus, ABS - implausible signal
P1683	CAN data bus, SRS - implausible signal
P1684	Long Term Fuel Trim Add.Air.,Bank1 System too Rich
P1686	Long Term Fuel Trim Add.Air.,Bank1 System too Lean
P1690	Malfunction indicator lamp (MIL) - circuit malfunction
P1691	Malfunction indicator lamp (MIL) - open circuit
P1692	Malfunction indicator lamp (MIL) - short to ground
P1693	Malfunction indicator lamp (MIL) - short to positive

P1694	Long Term Fuel Trim Add.Air.,Bank2 System too Rich
P1696	CAN data bus, steering column electronics - incorrect signal
P1698	Check DTC Memory Of Steering Column ECU
P1704	Long Term Fuel Trim Add.Air.,Bank2 System too Lean
P1705	Long Term Fuel Trim mult.,Bank1 System too Rich
P1711	Long Term Fuel Trim mult.,Bank1 System too Lean
P1716	Long Term Fuel Trim mult.,Bank2 System too Rich
P1721	Long Term Fuel Trim mult.,Bank2 System too Lean
P1723	Bank2-Sensor1 Internal Rsistance too High
P1724	O2 Sensor Heating Circ.,Bank1+2-Sensor1 Short to B+
P1726	O2 Sensor Heating Circ.,Bank1+2-Sensor1 Electrical Malfunction
P1728	O2 Sensor Heating Circ.,Bank1+2-Sensor2 Short to B+
P1729	O2 Sensor Heating Circ.,Bank1+2-Sensor2 Electrical Malfunction
P1733	Long Term Fuel Trim Add.Fuel,Bank1 System too Lean
P1739	Long Term Fuel Trim Add.Fuel,Bank1 System too Rich
P1740	Clutch Temperature Monitoring
P1741	Long Term Fuel Trim Add.Fuel,Bank2 System too Lean
P1742	Long Term Fuel Trim Add.Fuel,Bank2 System too Rich
P1743	Bank2-Sensor2 Internal Resistance too High
P1744	Load Calculation Cross Check Range/Performance
P1745	Load Calculation Cross Check Lower Limit Exceeded
P1746	Load Calculation Cross Check Upper Limit Exceeded
P1747	Mass or Volume Air Flow Circ Open/Short to Ground
P1748	Mass or Volume Air Flow Circ Short to B+
P1749	Mass or Volume Air Flow Circ Supply Malfunction
P1750	O2 Control (Bank 2) System too lean
P1751	O2 Control (Bank 2) System too rich
P1752	O2 Control (Bank 1) Out of range

P1760	O2 Control (Bank 2) Out of range
P1761	Bank1, Long Term Fuel Trim, Range 1 Leanness Lower Limit Exceeded
P1762	Bank1, Long Term Fuel Trim, Range 2 Leanness Lower Limit Exceeded
P1763	Manifold Switch Over Malfunction
P1764	Manifold Abs.Pressure Sensor Circ. Short to B+
P1765	Manifold Abs.Pressure Sensor Circ. Open/Short to Ground
P1766	Manifold Abs.Pressure Sensor Circ. Power Supply Malfunction
P1767	Manifold Abs.Pressure Sensor Circ. Range/Performance
P1768	Manifold Temp.Sensor Circ. Short to Ground
P1769	Manifold Temp.Sensor Circ. Open/Short to B+
P1770	Fuel Temp.Sensor Circ. Short to Ground
P1771	Fuel Temp.Sensor Circ. Open/Short to B+
P1772	Fuel Temperature Sensor Range/Performance/Incorrect Signal
P1773	Bank1, Long Term Fuel Trim, Range 1 Rich Limit Exceeded
P1774	Bank1, Long Term Fuel Trim, Range 2 Rich Limit Exceeded
P1775	Throttle Actuation Potentiometer Sign.2 Range/Performance
P1776	Throttle Actuation Potentiometer Sign.2 Signal too Low
P1777	Throttle Actuation Potentiometer Sign.2 Signal too High
P1778	Fuel Trim, Bank 1 Different injection times
P1781	O2 Correction Behind Catalyst,B1 Limit Attained
P1782	O2 Correction Behind Catalyst,B2 Limit Attained
P1784	Linear O2 Sensor / Pump Current Open Circuit
P1785	Linear O2 Sensor / Pump Current Short to ground
P1786	Linear O2 Sensor / Pump Current Short to B+
P1787	Linear O2 Sensor / Reference Voltage Open Circuit
P1788	Linear O2 Sensor / Reference Voltage Short to ground

P1789	Linear O2 Sensor / Reference Voltage Short to B+
P1790	Linear O2 Sensor / Common Ground Wire Open Circuit
P1791	Linear O2 Sensor / Common Ground Wire Short to ground
P1792	Linear O2 Sensor / Common Ground Wire Short to B+
P1793	Linear O2 Sensor / Compens. Resistor Open Circuit
P1795	Linear O2 Sensor / Compens. Resistor Short to ground
P1796	Linear O2 Sensor / Compens. Resistor Short to B+
P1797	Linear O2 Sensor / Reference Voltage Incorrect Signal
P1798	O2 Sensor Heater Circ.,Bank1-Sensor1 Electrical Malfunction
P1799	O2 Sensor Heater Circ.,Bank2-Sensor1 Electrical Malfunction
P1813	O2 Sensor Heater Circ.,Bank1-Sensor2 Electrical Malfunction
P1814	O2 Sensor Heater Circ.,Bank2-Sensor2 Electrical Malfunction
P1815	Cyl.1-Fuel Inj.Circ. Electrical Malfunction
P1818	Cyl.2-Fuel Inj.Circ. Electrical Malfunction
P1819	Cyl.3-Fuel Inj.Circ. Electrical Malfunction
P1820	Cyl.4-Fuel Inj.Circ. Electrical Malfunction
P1823	Cyl.5-Fuel Inj.Circ. Electrical Malfunction
P1824	Cyl.6-Fuel Inj.Circ. Electrical Malfunction
P1825	Cyl.7-Fuel Inj.Circ. Electrical Malfunction
P1828	Cyl.8-Fuel Inj.Circ. Electrical Malfunction
P1829	Intake valves for cylinder shut-off Short circuit to ground
P1830	Intake valves for cylinder shut-off Short to B+
P1834	Intake valves for cylinder shut-off Open circuit
P1835	Cyl.1-Fuel Inj.Circ. Short to B+
P1841	Cyl.2-Fuel Inj.Circ. Short to B+
P1842	Cyl.3-Fuel Inj.Circ. Short to B+
P1843	Cyl.4-Fuel Inj.Circ. Short to B+

P1844	Cyl.5-Fuel Inj.Circ. Short to B+
P1847	Cyl.6-Fuel Inj.Circ. Short to B+
P1848	Cyl.7-Fuel Inj.Circ. Short to B+
P1849	Cyl.8-Fuel Inj.Circ. Short to B+
P1850	Cylinder shut-off exhaust valves Short circuit to ground
P1851	CAN data bus, ABS - incorrect signal
P1852	Cylinder shut-off exhaust valves Short to B+
P1853	CAN data bus, ABS - incorrect signal
P1854	CAN data bus, ABS - defective
P1855	Cylinder shut-off exhaust valves Open circuit
P1856	Cyl.1-Fuel Inj.Circ. Short to Ground
P1857	Load Signal Error Message From ECU
P1858	Cyl.2-Fuel Inj.Circ. Short to Ground
P1859	Cyl.3-Fuel Inj.Circ. Short to Ground
P1860	Cyl.4-Fuel Inj.Circ. Short to Ground
P1861	Cyl.5-Fuel Inj.Circ. Short to Ground
P1862	Cyl.6-Fuel Inj.Circ. Short to Ground
P1863	Cyl.7-Fuel Inj.Circ. Short to Ground
P1864	Cyl.8-Fuel Inj.Circ. Short to Ground
P1865	Cyl.1-Fuel Inj.Circ. Open Circ.
P1866	Cyl.2-Fuel Inj.Circ. Open Circ.
P1900	Engine coolant blower motor, speed 2 - open circuit/short to ground
P1901	Engine coolant blower motor run-on relay - short to positive
P1902	Engine coolant blower motor run-on relay - open circuit/short to ground
P1903	Engine Coolant Hydraulic Blower Motor Solenoid Short To Positive
P1904	Engine Coolant Hydraulic Blower Motor Solenoid Open Circuit/Short To Ground

P1905	Charge Air Coolant Pump Relay Short To Positive
P1906	Charge Air Coolant Pump Relay Open Circuit/Short To Ground
P1908	Data Bus ECM 1/2 Software Version Monitoring
P1909	Transmission Temperature Sensor Circuit Open or Shorted to Power Or Ground
P1910	Data Bus ECM 1/2 No Signal From ECM
P1911	Data Bus ECM 1/2 Circuit Malfunction
P1912	Brake servo pressure sensor - open circuit/ short to positive
P1913	Brake servo pressure sensor - short to ground
P1914	Brake servo pressure sensor - range/ performance problem
P1920	Engine mounting control solenoid, open circuit/short to ground
P1923	Engine Control Module Malfunction
P1951	Radiator Fan 2 Movement Restricted / Jammed
P1952	Turbocharger Control Module 1 Defective
P1953	Turbocharger Control Module 2 Defective
P1996	Friction Too High Intake Camshaft Adjustment Bank 1
P1997	Friction Too High Exhaust Camshaft Adjustment Bank 1
P1998	Friction Too High Intake Camshaft Adjustment Bank 2
P1999	Friction Too High Exhaust Camshaft Adjustment Bank 2

# Questions? Contact us.



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